

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

62.75

GOLDEN GLEAM. New,
fragrant, double Nasturtium.
Supreme novelty. Pkt. 20 cts.



SEEDS

and Farm Implements

Spring 1933

RECEIVED
★ MAR 10 1933

VEGETABLE
SEED TRIALS
HORTICULTURE



GUINEA GOLD. Beautifully frilled Marigold of gleaming,
golden yellow. Entirely new. Pkt. 25 cts.



BLACKMORE & LANGDON'S STRAIN OF HYBRID DEL-
PHINIUMS. Finest race of mixed hybrids—all wonderful
blue shades. Pkt. 15 cts.

W. E. BARRETT CO. ~ Providence, Rhode Island

MAR 6 1933



The "CAPITOL" LAWN SEED

Will produce in a short time a fine, velvety growth and, with proper care, a firm, durable sward which will last indefinitely

This is the very finest mixture for a lawn that can be made, and we can recommend it for use anywhere a fine lawn is wanted. It is the result of many years' experience, and when we state that our actual sales the past season were 2500 bushels, it indicates that it must be better than ordinary lawn seed. For lawn-tennis courts, croquet-grounds, etc., the "Capitol" Mixture gives a fine, smooth, velvety sward a few weeks after sowing. Weight about 32 pounds to the bushel. Sow 4 bushels to the acre. Lb. 45 cts., 5 lbs. \$2, 10 lbs. \$3.75, 100 lbs. \$32.50.

Shady - Spot Lawn Seed

On almost every lawn there are shady places where it is difficult to get grass to grow. In such places a mixture combining fine, dwarf ever-green grasses which do well in shade may produce a smooth, perfect lawn. Frequently a shady lawn, which is insufficiently drained, becomes infested with moss and coarse grasses. In such cases slaked lime, applied at the rate of 40 to 50 pounds to each 1000 square feet, is an excellent remedy, but the moss should first be removed by the use of a sharp rake. When this is done, sow our Shady-Lawn Mixture, which will bring greenness to the bare spots and restore the beauty to the lawn. Very densely shaded places are quite hopeless, and no variety of grass can be made to flourish under such conditions. Lb. 45 cts., 5 lbs. \$2, 10 lbs. \$3.75, 100 lbs. \$32.50.

Special Mixtures

Often we have orders for special mixtures, some people preferring to follow out their own ideas, or to ask our advice on a mixture for a peculiar situation. We are always ready and pleased to give our customers just what they want, and whether our mixture or yours is ordered, the seed will always be the very best on the market.



SHADY-SPOT LAWN SEED

WE MAKE a specialty of supplying market-gardeners with the best strain of seeds obtainable. In addition, we are always on the lookout for improved strains and new varieties, and if, after a trial, they prove better than what we offer, then we list them, but not before. The same applies to our farm and garden tools—we are always looking for the best, and our stock will prove it. Look over our stock—we have hundreds of tools not listed in this catalogue.

Special: Market-Gardeners, Farmers, and others who use seeds in large quantities are invited to send us a list of their requirements, upon receipt of which we will be pleased to submit our special prices. We have a reliable method of testing all seeds before sending them out, and are always glad to furnish samples of our seeds to all who wish to test for themselves.

LAWNS AND THEIR MANAGEMENT

To insure a really fine lawn, there are several requisites: A good depth of rich soil, properly drained and free from boulders immediately below the surface; a liberal dressing of thoroughly decayed manure (10 to 12 cords per acre); nicety of grading in the levels and slopes; a firm, smooth surface upon which to sow the seed; and a sufficient quantity of the very best lawn grass seed, suited to the situation. The latter item is of prime importance. Boulders below the surface will, during the heat of summer, cause unsightly dry spots in an otherwise beautiful lawn; all such should be removed. A rich soil of good depth, and liberally fertilized, will maintain the fine greensward permanently, needing only an occasional top-dressing. Fresh, strawy manure should never be used in making a lawn; when decaying, it is liable to allow uneven settling of the soil. Make a smooth surface with harrow and rake, and use a roller to make it firm and even, before sowing the seed. After sowing, cover the seed well by raking it in, and again use the roller to finish the work.

Weeds. Plantains must be dug out just below the ground. Dandelions will grow again if cut less than 3 inches below the surface. Low-growing, spreading weeds must be torn up with a sharp rake.

Crab Grass is hard to destroy. It is an annual plant, starting to grow in June and seeding in September. The only way to get rid of it is by keeping it from seeding. This may be done by dragging up all the flower-bearing stalks with a sharp rake. Then cut closely with a low-set mower, raking up and burning all the cuttings. Where the crab grass is very thick, more severe measures may be needed. Let the lawn grow long during early or mid-August, long enough to cut

with a sickle or scythe. This gets rid of most of the flower-spikes before seeding, and it is then too late for others to form.

Fertilizing. Remember that grass roots, just as other roots, absorb food only in liquid form. Solid manures must decay and the contents become mixed with the soil-water before they are available for plant-food. Bone-meal is preferable for use in the soil, and sheep manure for top-dressing.

Watering is the life of a lawn. A thorough soaking once in a while is best. Water that does not go down deep tends to shallow rooting—a bad thing in hot weather.

MAKING AND MAINTAINING THE LAWN

While good Lawn Seed is absolutely necessary in making and maintaining an attractive lawn, there are other requisites that are almost as important, such as Fertilizers, and we highly recommend the following for that purpose—Wizard Brand Sheep Manure, Vigoro, Fine-ground Bone, and Land Lime. We can furnish any of these in quantities to suit all needs.

Maintaining a beautiful lawn calls for considerable labor, and this can be very much lightened by the use of the proper tools, such as Lawn Rollers to keep the ground in good condition; Lawn Mowers, both Motor and Hand, for trimming; Bamboo, Steel, and Wood Rakes for raking; and Garden Hose for use in case of drought. We also carry a fine line of Spades and Shovels.

Reseeding. In reseeding lawns that have become worn out by neglect or other causes, where it is not desirable to renew by plowing, it may be found very beneficial to run a light harrow over them, if the surface is large, or use a sharp steel rake for smaller spots. After this has been done, lawn seed should be sown over the surface, raking in about half the quantity advised for a new lawn, then rolling or beating down firmly; but if weeds and rank-growing grasses have got possession of the lawn, it had better be plowed under and sown afresh.

A much better stand of grass may be obtained by treating the seed with *Semesan* before sowing; also spray the soil. See page 40

HOW SEEDS ARE SENT

POSTAGE PREPAID.—We deliver free, at catalogue prices, to any post office in the United States, all seeds in packets, ounces, and quarter-pounds. Seeds sold by measure, or by the pound, when sent by parcel post, require, in addition to catalogue prices, postage at the rate given in the following table:

UNITED STATES PARCEL POST RATES (Seeds and Bulbs included)				First pound or fraction	Each additional pound or fraction	Packages must not exceed 100 ins. (length and girth combined)
Local Rate—Providence P. O. and Substations				\$0.08	\$0.01	Limit of weight, 70 lbs.
1st Zone within 50 miles of Providence				.08	.01	" " " 70 "
2d Zone, over 50 and under 150 miles of Providence				.08	.01	" " " 70 "
3d " " 150 " " 300 " " "				.09	.02	" " " 70 "
4th " " 300 " " 600 " " "				.10	.04	" " " 70 "
5th " " 600 " " 1000 " " "				.11	.06	" " " 70 "
6th " " 1000 " " 1400 " " "				.12	.07	" " " 70 "
7th " " 1400 " " 1800 " " "				.14	.09	" " " 70 "
8th All cities and towns over 1800 miles from Providence				.15	.11	" " " 70 "

REMITTANCES may be made at our risk by Draft, Post-Office Money Order, Express Company's Money Order, or Registered Letter. We make no charge for packing or cartage. Goods are delivered free to any freight station or express office in Providence. Cotton bags used in shipping orders are charged at cost, and are returnable at the same price, if returned in good condition in a reasonable length of time.

WARRANTIES.—We give no warranty, express or implied, as to descriptions, quality, productiveness or any other matter, of any seeds, bulbs, or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

Seeds of the best quality will often fail through improper treatment. More failures result from disregard of the conditions necessary to germination than from the quality of seeds used.

LOCAL DELIVERY.—Goods delivered locally without charge. Orders by mail or telephone receive the same prompt attention as a personal order

Farmers and Market-Gardeners Are Cordially Invited to Make Our Store Their Headquarters when in Providence

Number of plants to the acre at given distances

Dis. apart	No. plants	Dis. apart	No. plants	Dis. apart	No. plants	Dis. apart	No. plants
12 x 1 in.	522,720	24 x 24 in.	10,890	36 x 36 in.	4,840	60 x 60 in.	1,743
12 x 3 "	174,240	30 x 1 "	209,088	42 x 12 "	12,446	8 x 1 ft.	5,445
12 x 12 "	43,560	30 x 6 "	34,848	42 x 24 "	6,223	8 x 3 "	1,815
16 x 1 "	392,040	30 x 12 "	17,424	42 x 36 "	4,148	8 x 8 "	680
18 x 1 "	348,480	30 x 16 "	13,068	48 x 12 "	10,890	10 x 1 "	4,356
18 x 3 "	116,160	30 x 20 "	10,454	48 x 18 "	7,790	10 x 6 "	726
18 x 12 "	29,040	30 x 24 "	8,712	48 x 24 "	5,445	10 x 10 "	435
18 x 18 "	19,360	30 x 30 "	6,970	48 x 30 "	4,356	12 x 1 "	3,630
20 x 1 "	313,635	36 x 3 "	58,080	48 x 36 "	3,630	12 x 5 "	736
20 x 20 "	15,681	36 x 12 "	14,520	48 x 48 "	2,723	12 x 12 "	302
24 x 1 "	261,360	36 x 18 "	9,680	60 x 36 "	2,901	16 x 1 "	2,722
24 x 18 "	15,520	36 x 24 "	7,260	60 x 48 "	2,178	16 x 16 "	170

Quantity of seed requisite to produce a given number of plants and sow an acre

	Quantity per acre		Quantity per acre
Asparagus, 1 oz. to 800 plants.....	4 lbs.	Grass, Timothy.....	25 to 30 lbs.
Asparagus roots.....	5,000 to 8,000	" Orchard, Perennial Rye and Wood Meadow... 25 to 35 "	"
Barley.....	120 lbs.	Hungarian.....	50 "
Beans, Dwarf, 1 lb. to 100 feet of drill.....	60 "	Kale, 1 oz. to 3,000 plants, or 200 feet of drill.....	1 1/2 "
Beans, Pole, 1 lb. to 100 hills.....	30 "	Kohlrabi, 1/4 oz. to 100 feet of drill.....	2 "
Beet, Garden, 1 oz. to 100 feet of drill.....	6 "	Leek, 1/3 oz. to 100 feet of drill.....	4 "
Beet, Mangel, 1 oz. to 100 feet of drill.....	5 "	Lettuce, 1/4 oz. to 100 feet of drill.....	3 "
Broccoli, 1 oz. to 5,000 plants.....	4 ozs.	Melon, Musk, 1 oz. to 100 hills.....	1 to 3 "
Brussels Sprouts, 1 oz. to 3,000 plants.....	4 "	" Water, 4 ozs. to 100 hills.....	1 1/2 to 4 "
Buckwheat.....	48 lbs.	Millet, Golden.....	50 "
Cabbage, 1 oz. to 3,000 plants.....	4 ozs.	Nasturtium, 2 ozs. to 100 feet of drill.....	15 "
Carrot, 1/4 oz. to 100 feet of drill.....	2 1/2 lbs.	Oats.....	100 "
Cauliflower, 1 oz. to 3,000 plants.....	4 ozs.	Onion seed, 1/3 oz. to 100 feet of drill.....	4 to 5 "
Celery, 1 oz. to 8,000 plants.....	2 "	" sets, 2 lbs. to 40 feet of drill.....	250 "
Chicory, 1 oz. to 4,000 plants.....	4 lbs.	Parsnips, 1/4 oz. to 100 feet of drill.....	4 "
Clover, Alsike.....	6 "	Parsley 1/4 oz. to 100 feet of drill.....	3 "
" Alfalfa or Lucerne.....	15 to 25 "	Peas, Garden, 1 lb. to 100 ft. of drill.....	120 "
" Mammoth.....	8 to 12 "	" Field.....	120 "
" Medium.....	8 to 12 "	Pepper, 1 oz. to 1,500 plants.....	1 1/2 "
" White Dutch.....	6 "	Pumpkin, 3/4 lb. to 100 hills.....	3 to 4 "
Corn, Field.....	15 "	Radish, 2/3 oz. to 100 feet of drill.....	10 to 12 "
" Sweet, 1/4 lb. to 100 hills.....	15 "	Rutabaga.....	1 "
Cowpeas, in drills.....	60 "	Rye.....	60 to 90 "
Cucumber, 1 oz. to 50 hills.....	1 to 3 "	Sage in drills.....	4 to 5 "
Dill, 1/3 oz. to 100 feet of drill.....	5 "	Salsify, 3/4 oz. to 100 feet of drill.....	8 "
Eggplant, 1 oz. to 2,000 plants.....	4 ozs.	Spinach, 1/2 oz. to 100 feet of drill.....	10 "
Endive, 1/4 oz. to 100 feet of drill.....	4 1/2 lbs.	Squash, Summer, 4 ozs. to 100 hills.....	4 "
Grass, Blue, Kentucky.....	15 to 20 "	" Winter, 8 ozs. to 100 hills.....	2 "
" Millet, Japanese.....	25 "	Tomato, 1 oz. to 2,000 to 3,000 plants.....	1 to 3 "
" Mixed Lawn.....	60 to 100 "	Turnip, 1 oz. to 250 feet of drill.....	90 to 120 "
" Red-Top Fancy.....	15 "	Vetch, Spring.....	30 to 60 "
" Rhode Island Bent.....	25 to 40 "	" Hairy or Sand.....	60 to 90 "
		Wheat.....	60 to 90 "

Standard weights of various articles

	Per bus.		Per bus.		Per bus.		Per bus.
Barley.....	48 lbs.	Corn, Field, on ear.....	70 lbs.	Millet, Common.....	50 lbs.	Rye.....	56 lbs.
Beans.....	60 "	" Sweet.....	50 "	Millet, German or Golden.....	50 "	Sorghum.....	50 "
Buckwheat.....	48 "	Grass, Hungarian.....	48 "	Peas, smooth.....	60 "	Vetch or Tare.....	60 "
Clover.....	60 "	" Timothy.....	45 "	" wrinkled.....	56 "	Wheat.....	60 "
Corn, Field, shelled.....	56 "	Hemp.....	40 "	Rape.....	50 "	Oats.....	32 "

INDEX

Page	Page	Page	Page	Page	Page
Acanthus.....10	Cannas.....4, 14	Delphinium 1st Cov., 6, 11	Insecticides.....39, 40	Nicotiana.....37	Salvia.....8, 12
Ageratum.....3	Carnations.....4, 12	Dolichos.....13	Ipomoea.....13	Oats.....33	Scabiosa.....8, 12
Alyssum.....3, 10	Carrots.....19	Dusty Miller.....10	Kale.....23	Oenothera.....7	Silene.....12
Amaranthus.....10	Castor-Oil Bean.....10	Dutchman's Pipe.....13	Kohlrabi.....23	Okra.....25	Smilax.....13
Ampelopsis.....13	Cauliflower.....19	Echinocystis.....13	Lady's Slipper.....4	Onions.....26	Snapdragon.....10
Anemone.....10	Celery.....20	Eggplant.....22	Larkspur.....6	Pansies.....7	Spinach.....30
Aristolochia.....13	Centaurea.....4, 10	Endive.....23	Lathyrus.....13	Parsley.....26	Spraying Calendar.....38
Asparagus.....12, 15	Centrosema.....13	Eschscholtzia.....5	Lawn Seed.....2d Cov.	Parsnips.....28	Squashes.....30
Asperula.....3, 10	Chrysanthemums.....5	Euphorbia.....10	Leek.....23	Peas, 27, 28, 33, 4th Cov.	Stimugerm.....34
Asters.....3, 10, 12	Cineraria.....10, 12	Everlasting Flower.....5	Lettuce.....24	Pentstemon.....11	Stim-U-planT.....9
Baby's Breath.....5, 11	Clematis.....13	Farm Seeds.....33-37	Liatris.....11	Peppers.....28	Stocks.....9
Balloon Vine.....13	Climbers.....13	Fennel.....24	Lobelia.....6, 11	Perennials.....10-12	Sweet Peas.....13
Balsam.....4, 12	Clovers.....35, 36	Fertilizers.....41, 42	Love-in-a-Mist.....7	Petunias.....8	Sweet William.....11
Barley.....34	Cobaea.....13	Flower Seeds.....3-12	Lupinus.....6, 11	Phlox.....8, 12	Thunbergias.....13
Beans.....13, 15-17, 34	Cockscomb.....4	Foliage Plants.....10	Marigold, 1st Cov., 4, 6	Pinks.....5, 10, 11	Tomatoes, 31, 4th Cov.
Beets.....17, 32	Coleus.....10	Forget-me-not.....5, 11	Matricaria.....6	Poppies.....5, 6, 8, 11	Tritoma.....12
Begonias, 12, 14, 3d Cov.	Columbine.....10	Foxglove.....5, 11	Maurandia.....13	Portulaca.....37	Tuberose.....14
Bellflower.....11, 12	Coreopsis.....11	Gaillardia.....5, 11	Mignonette.....6	Potatoes, Seed.....7	Turnips.....31
Blue Lace Flower.....5	Corn, Field.....32, 33, 37	Glaadiolus.....14, 3d Cov.	Millet.....36	Primroses.....7, 12	Verbenas.....3, 9
Broccoli.....17, 4th Cov.	Corn, Sweet.....4th Cov., 21, 33	Gloxinia.....12	Momordica.....7	Pumpkins.....29	Vetch.....7, 12
Brussels Sprouts.....18	Cosmos.....5	Gourds, Ornamental.....13	Monkey Flower.....7	Pyrethrum.....10, 12	Wallflower.....12
Buckwheat.....34	Cowpeas.....34	Grass Seed, 2d Cov., 35, 36	Murderhood.....10	Radish.....29	Watermelons.....26
Butterfly Flower.....9	Cress.....10, 20	Helianthus.....6	Morning-Glory.....13	Rape.....33	Wheat.....34
Cabbage.....18	Cucumbers.....13, 22	Heliotrope.....6	Mushroom Spawn.....25	Rhubarb.....30	Zinnia.....9, 3d Cov.
Calceolaria.....12	Dahlias.....14, 3d Cov.	Herbs.....32	Muskmelons.....25	Rutabaga.....31	Farm and Garden Sup-
Calendula.....4	Daisy.....3-5, 10, 11	Hibiscus.....6	Mustard.....24	Salsify.....29	plies, Tools, Imple-
Calliopsis.....5	Dandelion.....22	Hollyhocks.....6, 11	Nasturtium.....1st Cov., 7, 13		ments, etc.....43-80
Candytuft.....4, 11		Humulus.....13			

STIMUPLANT
Makes a
WONDER GARDEN

See page 9

Select Flower Seeds

A liberal discount is given on Flower Seeds sold in packets. This does not apply to collections nor to seeds by the ounce or pound. For \$1, select seeds amounting to \$1.25; for \$2, select seeds amounting to \$2.50; for \$3, select seeds amounting to \$3.75; for \$4, select seeds amounting to \$5.

FLOWERING PLANTS. We carry a full line of the popular annuals and perennials in season.

CHOICE ANNUALS FOR BLOOM THE FIRST SEASON



California Sunshine Asters



Crego Aster

ASTERS

The Aster is a royal annual, glorifying the garden with a rich display of bloom. Our collection includes the most distinct forms and varieties of rich colors. A good selection will give elegant flowers for cutting from July until frost.

IMPROVED GIANTS OF CALIFORNIA. The ideal Pkt. Aster for cutting, the blooms measuring nearly 6 inches across, packed with broad, well-placed petals on stems 24 to 30 inches long. Mixed.....1/4oz. 75 cts...\$0 15

CALIFORNIA SUNSHINE. These star-like Asters have a great esthetic appeal and are especially valued for cut-flower use. The plants are tall, straight-stemmed, and very floriferous. We consider the California strain offered here a great improvement over the old-time Sunshine type. Mixed.....1/4oz. 75 cts... 15

HEART OF FRANCE. A pure Red Aster. This beautiful variety opens as red as the purest ruby, deepens with age, and retains its remarkable color to the very end. 1 1/2 to 2 feet.....1/8oz. 30 cts... 10

CREGO or GIANT COMET. Large, perfectly shaped flowers with long petals, wavy and twisted, suggestive of a Japanese chrysanthemum. Flowers average from 3 to 4 inches across and grow from 1 1/2 to 2 ft. high. White, Carmine, Rose, Light Blue, Dark Blue, Yellow, and Mixed.....1/8oz. 30 cts... 10

SEMPLE'S BRANCHING. Plant of branching habit, producing from ten to twenty large, perfect flowers. White, Pink, Lavender, Scarlet, and Mixed....1/8oz. 25 cts... 10

QUEEN OF THE MARKET. A very early variety, producing an abundant supply of beautifully colored flowers early in July. These are of great value for an early display or for quick growing cut-flowers, and are used quite largely for this purpose. 1 foot. White, Crimson, Pink, Blue, and Mixed.....1/8oz. 30 cts... 10

ABRONIA • Sand Verbena

Pretty, trailing plants of easy culture, with prostrate branches and clusters of sweet-scented flowers, somewhat like verbenas in profusion. Fine for baskets, rockwork, and borders. Pkt.

Umbellata grandiflora. Large clusters of rose flowers....\$0 10

ADONIS

Free-blooming plants, about a foot tall, with feathery foliage; large, brilliant flowers in early spring, lasting a long while.

Autumnalis. Pheasant's Eye. Intense dark red flowers, Pkt. with black center.....\$0 10
Vernalis. See Perennials..... 10

AGERATUM

These are greatly valued for bedding on account of their neat, vigorous growth and free-blooming habit. They bloom the whole summer through, where sown early.

Lasseauxi. Fine clusters of bright rose flowers, borne long Pkt. and abundantly; valued for cutting.....1/8oz. 25 cts...\$0 10
Blue Perfection. Flowers dark blue. The plant is very dwarf, free-blooming, and handsome.....1/4oz. 25 cts... 10
Mexicanum, Little Dorrit, Dwarf White. Like above, with large clusters of white flowers.....1/4oz. 25 cts... 10

AGROSTEMMA

Coeli-rosa. Rose of Heaven. Exceedingly pretty and graceful rose-colored flowers..... 10

ALYSSUM

A great favorite for bouquets and house culture, as well as for outdoor baskets and border edgings. Pkt.

Lilac Queen. Pure lilac.....\$0 10
Little Gem. Very dwarf and spreading....1/4oz. 20 cts... 10
Maritimum Benthami. Very sweet white flowers.. 1/4oz. 20 cts... 10
Procumbens. Trailing..... 10

ARCTOTIS • African Daisy

Grandis. Bushy annual plants, producing the entire season, on long stems, large daisy-like flowers, pure white on the upper surface, the reverse side of petals lilac-blue. 2 ft..... 10

ASPERULA

Azurea-setosa. Blue, fragrant flowers. 1 ft..... 10



Ageratum

SUPERB BALSAM • Lady's Slipper

Popular, easily grown plants, giving brilliant masses of beautiful flowers for little care. They are about 2 feet in height, but transplanting dwarfs them and makes the flowers more double. Some are as double and perfect as camellias.

- Double Rose-flowered.** Flowers are very large, double, Pkt. and of perfect form. Fine Mixed.....\$0 10
Improved Camellia-flowered. Regular perfect blooms, large and full to the center. Choice Mixed..... 10
Florists' Best Double White..... 10

BARTONIA

- Aurea** (*Mentzelia aurea*). Handsome plants, with downy foliage and fragrant, large, golden yellow flowers, which open in the evening. Thrives in any soil. Height about 3 feet..... $\frac{1}{4}$ oz. 25 cts... 10

BRACHYCOME

- Iberidifolia.** *Swan River Daisy*. Flowers light and graceful, and borne profusely; colors blue or white, with dark center. Plants spreading in habit, about a foot tall. Mixed..... $\frac{1}{4}$ oz. 40 cts... 10

BROWALLIA

- Elata, Mixed**..... 15

CACALIA

- Coccinea** (*Emilia flammea*). *Tassel Flower*. Loves a rich, sunny spot, where they bloom until late autumn. The tassel-shaped flowers are bright scarlet and borne in graceful clusters..... $\frac{1}{4}$ oz. 25 cts... 10

CALENDULA • Pot Marigold

- Campfire.** This is the finest of all modern introductions in Pot Marigolds. The enormous flowers are very flat and double, of a brilliant orange-yellow hue. A superb Calendula for forcing indoors and one of the best varieties for growing in the garden..... $\frac{1}{4}$ oz. 50 cts... 15
Officinalis grandiflora fl.-pl. Semi-dwarf plant with handsome, very large, double, pure golden yellow flowers. Oz. 50 cts... 10
Ball's Gold. Very large circular flowers, double to center, and rich, shining golden yellow.....Oz. 50 cts... 10
Prince of Orange. Large, very double flowers of rich, deep orange, striped with a lighter color.....Oz. 50 cts... 10
The Ball. This special forcing strain of Calendula produces exceptionally large, extra-double flowers of bright orange. $\frac{1}{4}$ oz. 40 cts... 10
Radio. New. A recent English introduction. Orange, with quilled petal..... $\frac{1}{4}$ oz. 50 cts... 10



Calendula, Radio



Giant Empress Candytuft

CANDYTUFT • Iberis

- Plants of branching habit bearing spikes of flowers. Very showy for borders. One of the best cut-flowers for bouquets. Pkt.
Finest Mixed. 1 ft.....Oz. 40 cts...\$0 10
Umbellata purpurea. Dark purple. 1 ft... $\frac{1}{2}$ oz. 30 cts... 10
Giant Empress. White; extra large. Fine for forcing. 2 ft. $\frac{1}{2}$ oz. 40 cts... 10
Crimson..... $\frac{1}{2}$ oz. 40 cts... 10
Little Prince. Very dwarf, forming a low, dense mass of green against which the large clusters of white flowers are very effective..... $\frac{1}{4}$ oz. 60 cts... 10

CANNAS

Crozy's Dwarf Large-flowering French

- Fine Mixture** of choice seeds, from dwarf, early-flowering plants..... $\frac{1}{4}$ oz. 25 cts... 10

CARNATIONS, MARGARET

- This form of the hardy Carnation blooms four months from seed. Plants vigorous, semi-dwarf, and neat, and if sown under glass in March or April, begin blooming in early summer and yield a brilliant display of flowers until frost. Pkt.
Pure White, Rose, Scarlet, Violet, Mixed.. $\frac{1}{8}$ oz. 50 cts...\$0 10

CELOSIA • Cockscomb

For beds, borders, pot culture, and winter bouquets

- Celosias are free-blooming, growing best in rather light soil. Can be started early inside or may be planted outside in May.
Cristata, Glasgow Prize. Immense, showy dark crimson Pkt. combs. 1 ft.....\$0 15
Pyramidalis plumosa childsi. *Chinese Woolflower.* Crimson. 2 ft..... 10
Pyramidalis plumosa, Golden Yellow. 2 ft..... 10
Pyramidalis plumosa, Scarlet. 2 ft..... 10
Pyramidalis plumosa magnifica. Mixed colors. 2 ft.... 10

CENTAUREA • Bachelor's Button

- Cyanus.** *Blue Bottle; Cornflower; Ragged Sailor.* One of the most popular of our garden annuals, blooming continually all summer. Pkt.
Finest Mixed. 2 ft..... $\frac{1}{4}$ oz. 25 cts...\$0 05
Deep Blue, Single. 2 ft..... $\frac{1}{4}$ oz. 25 cts... 05
Deep Blue, Double..... $\frac{1}{4}$ oz. 25 cts... 10
Rose Pink, Double..... $\frac{1}{4}$ oz. 25 cts... 10
Imperialis. *Giant Cornflower.* Flowers very fragrant, of immense size, and great variety of colors.
Finest Mixed. 2 ft..... $\frac{1}{4}$ oz. 25 cts... 10
Moschata. *Sweet Sultan.* Very showy, fragrant flowers, excellent for cutting.
Finest Mixed. 2 ft..... $\frac{1}{4}$ oz. 30 cts... 10



Calliopsis

CHRYSANTHEMUM

Coronarium fl.-pl. Summer-blooming. The majority of Pkt. the flowers are very double and bronzy yellow, tinged with red or rose, but some will be pure white or crimson, and of graceful semi-double form..... $\frac{1}{8}$ oz. 25 cts...\$0 10

CLARKIA

Elegans. Early, profuse-flowering, plants averaging $1\frac{1}{2}$ feet in height, with oddly formed double flowers of bright rose, purple, or white, in long sprays for cutting. **Single and Double**..... $\frac{1}{4}$ oz. 30 cts... 10

CLEOME • Spider Plant

Gigantea. Beautiful carmine flowers of unusual form, with long, slender threads running out from the center. Sow in the open ground as soon as it can be worked. Blooms midsummer until frost..... $\frac{1}{4}$ oz. 25 cts... 10

COLLINSIA

Brightly colored flowers, borne in whorls, several of which cluster about each stem. Plants always in flower. $1\frac{1}{2}$ ft. Pkt. **Mixed**..... $\frac{1}{4}$ oz. 25 cts...\$0 10

COSMOS

Fine for cutting, having long, slender stems, airy, graceful flowers, and feathery foliage. Plants tall and strong-growing, from 4 to 6 feet high, and a perfect fountain of bloom from September until frost. Should be started early. Pkt.

Large-flowering Pink. Very handsome and useful for cut-flowers..... $\frac{1}{4}$ oz. 25 cts...\$0 10

Extra-Early Double Crested. Cosmos is one of the most popular garden flowers, and, since the advent of the early-flowering strain, can be had in profusion for cutting and garden decoration throughout the entire summer and autumn. This specially fine new variety is of dwarf growth, seldom more than 4 feet high, producing an abundance of large, handsome, pink, crimson or white flowers dotted by a fully double, compact, anemone-like center. **Finest Mixed**..... 15

Late-flowering, Grand Mixture..... $\frac{1}{8}$ oz. 20 cts... 05

Early-flowering, Finest Mixed. Seed, if sown in March and April, will flower during July. 4 ft..... $\frac{1}{8}$ oz. 25 cts... 05

CYNOGLOSSUM

Amabile. Chinese Forget-me-not. Strong plants, about 18 inches high, with sprays of fragrant, bright blue, forget-me-not-like flowers all summer..... 10

CALLIOPSIS • Bright Eyes

Plants are of graceful habit, easy culture, and flower profusely throughout the season. Popular for cutting and garden.

Drummondii. *Golden Wave.* Pure bright yellow flowers, Pkt. with a rich velvety brown eye. The plant is compact, bushy, and blooms freely..... $\frac{1}{4}$ oz. 25 cts...\$0 10

Tinctoria. Double flowers of a rich golden yellow color, with wine-maroon spots..... $\frac{1}{4}$ oz. 25 cts... 10

SHASTA DAISY

The flowers are very large, a foot or more in circumference, growing on long stems, with two rows of broad, pure white petals and a yellow center. Pkt. 10 cts.

DIANTHUS

Brilliant and popular Garden Pinks

Gay, spicily fragrant flowers, well loved and grown everywhere in almost any soil. It literally covers its dense thicket of leaves and stems with brilliant masses of flowers. All the varieties named below bloom the first year from seed.

Sinensis fl.-pl. *Double Chinese or Indian Pink.* Large Pkt. and double, in all rich colors. Fine Mixed.....\$0 10

Heddewigii grandiflora fl.-pl. *Crown of Perfection.* Flowers of immense size and very double; produced in greatest profusion. Colors, from purest satiny white to intense red, soft pink and flesh tints and a large proportion of flowers marked in various hues..... $\frac{1}{4}$ oz. 50 cts... 10

Heddewigii diadematus fl.-pl. *Double Japanese or Diadem Pink.* Flowers large and fine and very double, ranging through all colors. Finest Mixed.. $\frac{1}{4}$ oz. 40 cts... 10

Imperialis fl.-pl. *Double Imperial Pink.* An extra-fine mixture, producing all colors..... $\frac{1}{4}$ oz. 30 cts... 10

Barbatus. *Sweet William.* See Perennials.

DIDISCUS • Blue Lace Flower

Cærulea. Exquisite pale lavender blooms from July to October. Fine for cutting. Height 18 inches..... 10

DIMORPHOTHECA

Aurantiaca. *African Golden Daisy.* One of the showiest garden annuals; compact, bushy plants with orange-gold daisy-like blooms on long stems..... 10

ESCHSCHOLTZIA • California Poppy

Californica. Brilliantly colored and poppy-like, shining with a silken luster in the sunshine. A bed of them is fairly dazzling, with its rich hues of orange, pure yellow, scarlet, creamy white, crimson and carmine.

Single, Carmine King (crimson), **Golden West** (lemon), **Mandarin** (orange), **Mixed**..... 10

Double, Mixed..... $\frac{1}{8}$ oz. 25 cts... 10

EVERLASTING FLOWERS

Flowers retain their form and color for years, if cut when just in bud and hung head downward to dry. Pkt.

Acroclinium. Mixed. 1 ft..... $\frac{1}{4}$ oz. 30 cts...\$0 10

Globe Amaranth. *Bachelor's Button.* Mixed colors. 1 ft..... $\frac{1}{4}$ oz. 25 cts... 10

Helichrysum. *Strawflower.* Mixed. 2 ft.. $\frac{1}{4}$ oz. 35 cts... 10

Rhodanthe, Mixed. Charming, gaily colored little flowers on nice stiff stems for dried winter bouquets..... 10

GAILLARDIA • Blanket Flower

Showy bedding plants, averaging about 2 feet in height, and covered with flowers from midsummer until frost.

Pulchella picta Lorenziana. Double flowers, in many Pkt. bright colors.....\$0 10

Aristata (grandiflora). See Perennials.

GODETIA

Mixed. Compact, branching, attractive little plants, always gay with white, rose, or crimson flowers. $\frac{1}{4}$ oz. 25c.. 10

GYPSOPHILA • Baby's Breath

Elegans grandiflora. Delicate sprays of pure white flowers.....Oz. 25 cts... 05

Muralis. Beautiful shade of rose-pink.....Oz. 25 cts... 05

HELIOTROPE

Finest Mixed. Excellent for bedding; very fragrant flowers, fine for cutting. Grows well in the house. 2 ft. Pkt.
 1/4 oz. 50 cts. . . \$0 10

HELIANTHUS • Sunflower

ANNUAL VARIETIES

The tall-growing sorts are fine for background along fences and walls or large borders; small varieties, for cutting. Pkt.

Californicus fl.-pl. Double; deep yellow. 5 ft. 1/2 oz. 25c. . . \$0 10

Globosus fistulosus. Globe-shaped; yellow. 6 ft. 1/4 oz. 20 cts. . . 10

Nanus variegatus. Dwarf; handsome variegated foliage. 4 ft. 1/4 oz. 20 cts. . . 10

Debilis cucumerifolius. *Miniature Sunflower.* Of pyramidal growth, covered with hundreds of small, single, bright orange flowers. 3 ft. 1/4 oz. 20 cts. . . 10

HIBISCUS

Trionum (africanus). Showy and effective. The large, cream-colored flowers have a rich, dark brown center. The plants grow about 2 feet tall. 10

HOLLYHOCK • *Althæa rosea*

Hybrida semperflorens. Annual. Plant early inside and transplant outside in May. **Double Mixed** 10

HUNNEMANNIA • Tulip Poppy

Yellow. Large yellow flowers. Blooms from July to end of season. 10

KOCHIA

Trichophylla. *Summer Cypress; Mexican Firebush.* Pretty little bushes of pyramidal shape; foliage delicate green, the little, brilliant scarlet flowers completely covering the whole plant. Excellent for hedges along walks in gardens. 3 ft. 1/4 oz. 25 cts. . . 10

LANTANA

Hybrida. Verbena-like heads in colors of orange, rose, and white. A fine bedding plant. 2 1/2 ft. 1/4 oz. 30 cts. . . 10

LARKSPUR • Delphinium

Rocket Larkspurs are very showy, and produce their bright-colored spikes of flowers the first season if sown early. For other Larkspurs, see Perennials. 1/4 oz. Pkt.

Dwarf Double German Rocket. All colors mixed. \$0 20 \$0 10

Tall Double German Rocket. Dark Blue, Light Blue, Brick-Red, Rose, White, Apple-Blossom, and Mixed 25 10

LINUM

Grandiflorum rubrum. *Scarlet Flax.* An easily grown plant with fine stems and foliage and producing a profusion of beautiful bright scarlet blooms. 1/4 oz. 20 cts. . . 10

LOBELIA

The *Erinus* forms of Lobelia are quite showy and free-blooming; the dwarf forms are used for edgings, vases, etc.; other sorts for beds. All are of easy culture.

Erinus gracilis, light blue, and **Erinus alba,** pure white. Pkt. Trailing. \$0 10

Erinus compacta varieties: **Alba,** pure white; **Crystal Palace,** dark blue, and **Prima Donna,** rich purple. . . . 10

Erinus speciosa. Ultramarine-blue. Trailing. 10

Erinus speciosa superba. Dark blue, with white eye. Trailing. 10

LUNARIA

Annua (biennis). *Honesty.* A hardy biennial that must be sown in autumn or early spring in order to bloom the first year. Flowers purple and double. 10

LUPINUS • Sun Dial

A very effective plant in mixed borders and grows about 2 feet tall. The seed should be sown where the plants are to stand. **Mixed** 1/4 oz. 25 cts. . . 10

MALOPE

Trifida grandiflora. *Mallow.* Robust branching plants, usually about 2 feet high, with very pretty large, mallow-like red or white flowers. **Mixed** 1/4 oz. 20 cts. . . \$0 10

MARIGOLD

DOUBLE FRENCH AND AFRICAN

Showy plants for midsummer and autumn bloom, growing 1 to 2 feet tall; free-flowering and easy to grow.

Guinea Gold. A new type with broad, wavy petals of bright yellow flushed with orange-gold. The double flowers are loosely formed, very graceful, 2 to 2 1/2 inches across. Excellent for exhibition and cutting purposes. . . \$0 25

Eldorado. Finest of the double African Marigolds. Flowers from 3 to 4 inches across, very double, of bright golden orange and primrose shades. **Mixed**. 1/4 oz. 40 cts. . . 10

Legion of Honor. Dwarf; single; yellow. . . 1/4 oz. 40 cts. . . 10

Tall Double French. Flowers of various bright colors. **Mixed** 1/4 oz. 20 cts. . . 10

Dwarf Double French. Plants low and compact. **Mixed**. 1/4 oz. 20 cts. . . 10

Single Marigold (*Tagetes signata pumila*). Fine bedding plants. 1/4 oz. 40 cts. . . 10

MATRICARIA

Capensis. *Chamomile Feverfew.* Fine for cutting and pot culture, as well as for beds and borders. Thrives well in all soils; blooms until frost. Flowers pure white, double. 18 to 20 inches tall. 10

MIGNONETTE

The matchless perfume of this modest flower renders it one of the most popular annuals grown. In form and color the flower-spikes have been greatly improved, but it is for their delicate, subtle fragrance that they will always be chiefly valued for garden and window culture, and for the costliest as well as the simplest bouquets.

Defiance. Specially adapted for pot culture. 1/4 oz. Pkt. \$0 25 \$0 10

Gabrielle. Very pretty sort, bearing large spikes of red flowers. 25 10

Large-flowering. The old and well-known Mignonette, still as sweet as any. 20 10

Machet. The best variety for pots. Dwarf, free-blooming, with flower-spikes beautiful, bright reddish maroon; very sweet. 25 10



Larkspur



Nicotiana affinis

MESEMBRYANTHEMUM

Crystallinum. Ice Plant. Glistening waxen leaves and stems covered with a shining granular coat. Flowers quite pretty and of various colors. Plant trailing, about 6 inches high. Well adapted for baskets, vases, borders, etc. Mixed.....\$0 10

MIMULUS • Monkey Flower

Flowers showy and oddly marked; ground color white or yellow, flaked and spotted with maroon, scarlet or crimson. Plants dwarf, compact, and bloom continuously.

Moschatus. The well-known Musk Plant, with strongly scented yellow flowers.....\$0 10

Tigrinus grandiflorus. Large-flowering, tigered and spotted varieties in many rich colors..... 10

MIRABILIS

Jalapa. Four o'Clock. Old favorites, with sweet-scented flowers of many different colors. They open in the afternoon and wither in the morning. Mixed....Oz. 25 cts... 10

MOMORDICA

Handsome tendrill climbers, thriving in any good garden soil, bearing small odd-shaped fruit.

Balsamina. Balsam Apple.....\$0 10

Charantia. Balsam Pear..... 10

DWARF NASTURTIUMS

TOM THUMB VARIETIES FOR BEDDING

None of the old-fashioned plants deserve their renewal of popularity better than the Nasturtium. Its brave and hardy habit of growth once gave it the name of "the soldier's flower," which was well borne out by the rollicking air of the climbing varieties; but now the artists claim it, and its pale green, shield-shaped leaves and vivid flowers appear on all sorts of choice bric-a-brac, besides being prime favorites for cut-flowers and personal adornment. Thick masses of leaves and flowers not more than a foot high.

Golden Gleam. A delightful novelty with double and semi-double flowers of pure glowing yellow. The plants are dwarf and extraordinarily free-flowering, and in addition to their handsome, double form, the blooms are deliciously fragrant. A splendid new Nasturtium for cutting and equally good for garden display. Pkt. 20 cts.

Fine Mixture Will produce lovely flowers of many colors. Oz. 15 cts., 1/4lb. 40 cts.

For Climbing Nasturtiums, see Ornamental Climbers.

NEMOPHILA

Of compact habit; oddly and beautifully colored flowers of blue, purple and white, in unusual markings and blendings.

Mixed.....1/4oz. 20 cts...\$0 10

NICOTIANA

Affinis hybrida. Mixed colors.....1/4oz. 25 cts...\$0 10

NIGELLA • Love-in-a-Mist

A delicately pretty plant, with light blue or white flowers, set in a mist of feathery green foliage, and bearing curious seed-pods.

Mixed.....1/4oz. 20 cts...\$0 10

NOLANA

Beautiful trailing border plants, with flowers in all shades of blue and white; also admirable for hanging-baskets, etc.

Mixed.....1/4oz. 25 cts...\$0 10

CENOTHERA • Evening Primrose

Flowers large, fragrant, showy, yellow being the predominating color, affording a fine display.

Mixed.....1/4oz. 25 cts...\$0 10

PANSIES

We wish to call especial attention to our large and fine assortment of Pansy seed, which includes all famous and desirable shades and blendings. The collection is quite complete and contains only the finest and purest strains.

A garden without Pansies is an anomaly nowadays, for their bewitching flower-faces are grown and loved everywhere. The plants will live on from year to year, like other species of violets, but the flowers become smaller as the parent stem grows older, and so for a continual supply of flowers, the seeds are sown twice a year—in spring and autumn.

Steele's "400." Giants in size, splendid form, color, substance, and vigor. Mixed colors.....\$0 25

Fine Mixture. Prepared from a splendid strain of large-flowering sorts, including many colors..... 10

Engelmann's Special Mixture. This is the old Scottish show type of flower, reselected to a strain of immense flowers. The colors are mostly bronze and reddish shades, with some yellow-edged ones 25

Engelmann's Giant Mixture. A very vigorous-growing strain, producing flowers 3 to 4 inches across. It contains a great variety of shades, both dark and light. Both strains are compact and early flowering. We are exclusive distributors of this seed in the United States. 25

TUFTED PANSIES • Violas

Seed sown in April will flower in June and continue until frost. Pkt. 10 cts., 1/4oz. 75 cts.

PORTULACA

Sturdy little trailing plants that bloom brightest during our warmest, driest weather. Beds of them form brilliant rainbows of color on sunshiny mornings—the sun cannot be too warm for them.

Single Mixed. In many rich colors.....1/4oz. 20 cts...\$0 10

Double Mixed. A large percentage of the flowers will be as double as little roses.....1/8oz. 40 cts... 10



Single Portulacas



Salpiglossis

PETUNIAS

No annual of the garden is more lavish with its flowers, or more readily adaptable to any and every purpose than the Petunia. So popular has it become that enthusiasts have given years of patient care to its improvement, and we now have superb show varieties, fringed, ruffled and double, mottled, striped and self-colored.

LARGE-FLOWERING FRINGED

A choice mixture from superb strains, combining extreme elegance of form with a great diversity of bright and delicate colors. **Double**, pkt. 50 cts. **Single**, pkt. 25 cts.

Inimitable Striped and Blotched. Finely shaped flowers, with stelliform blotches. All sorts.... $\frac{1}{4}$ oz. 40 cts... \$0 10

Howard's Star. Dark crimson, with white star in center... $\frac{1}{8}$ oz. 50 cts... 10

White..... $\frac{1}{8}$ oz. 50 cts... 10

Rosy Morn..... $\frac{1}{8}$ oz. 50 cts... 10

Crimson..... $\frac{1}{8}$ oz. 50 cts... 10

Violacea. Rich velvety purple..... 25

Good Mixed. We will give an equal percentage of all choice types..... $\frac{1}{4}$ oz. 35 cts... 10

Balcony Petunias, Mixed..... 15

PHLOX DRUMMONDI

The Drummond Phloxes have every quality desirable in a fine bedding plant. With brilliancy and variety in color they combine grace and refinement of form, a free and constant blooming habit, neat, compact growth, and ease of culture.

Nana compacta. The Dwarf Phloxes are of neat, compact habit, growing only about 8 inches high. Charming and unique. Choice mixed colors..... $\frac{1}{8}$ oz. 60 cts... \$0 10

Stellaris cuspidata. Star Phlox. Pretty star-shaped flowers, forming a lace-like cluster..... $\frac{1}{4}$ oz. 40 cts... 10

LARGE-FLOWERING PHLOX

Flowers as large as in the perennial class $\frac{1}{4}$ oz. Pkt.

Rotunda grandiflora alba. Pure white..... \$0 50 \$0 10

Striata. Richly striped with red and rose..... 50 10

Isabellina. Flowers are yellow; distinct and new... 50 10

Kermesina splendens. Vivid crimson, white eye.. 50 10

Mixed Varieties. All varieties mixed..... 40 10

POPPIES

The annual Poppies are quite as brilliant and effective for all purposes as the old-fashioned perennial sorts. They grow freely in any good soil.

SINGLE POPPIES

Shirley. Daintily marked and colored flowers of light, gauzy appearance. Mixed..... \$0 10

Tulip Poppy. Grows 12 to 14 inches tall, branches freely, and bears brilliant crowns of from 50 to 60 large, vivid scarlet flowers. Begin to bloom in early June and continue until late..... $\frac{1}{4}$ oz. 30 cts... 10

DOUBLE POPPIES

Mikado. Each blossom is a large, soft ball of finely divided petals, pure white at the base, flaming into brilliant crimson-scarlet toward the tips..... $\frac{1}{4}$ oz. 20 cts... 10

Peony-flowered Double. Large flowers, very double and shapely, brilliantly colored; free-blooming, and more lasting than is usual with Poppies. Mixed.. $\frac{1}{4}$ oz. 20 cts... 10

White Swan. Very handsome, snowy white flowers; graceful, of fine size, fringed and double..... $\frac{1}{4}$ oz. 20 cts... 10

For other varieties of Poppies, see Perennials

SALPIGLOSSIS • Tube Tongue

Variabilis grandiflora. This elegant half-hardy annual flowers in late summer and autumn. The blossoms are velvety, with deep veins and markings, lily-shaped and quaintly lovely. Mixed..... 10

SALVIA • Flowering Sage

Magnificent bedding plants, all ablaze with long spikes of blue or scarlet flowers from June until October. 1 to 2 feet.

Splendens, America. Flowers bright scarlet..... Pkt. $\frac{1}{4}$ oz. 75 cts... \$0 15

Patens. Leaves silvery; large, beautiful, sky-blue flowers... 15

Bonfire. Beautiful dwarf variety, producing long spikes of rich scarlet flowers; very free-blooming.. $\frac{1}{8}$ oz. 60 cts... 15

Farinacea. Long spikes of lavender-blue flowers..... 20

Harbinger. A new, dwarf, large-flowering strain that blooms all season. Large, brilliant scarlet flowers..... 20

SAPONARIA

Multiflora, Scarlet Queen. Hardy annual, growing into thick clumps, and producing masses of fragrant red, cruciform flowers..... $\frac{1}{4}$ oz. 20 cts... 10

SCABIOSA

Atropurpurea grandiflora. Mourning Bride. Curious and pretty—old-fashioned flowers, still deservedly popular. Mixed..... $\frac{1}{4}$ oz. 35 cts... 10



Phlox Drummondii



Schizanthus

SCHIZANTHUS
Butterfly or Fringe Flower

Grandiflorus. Erect-growing plants for the house or garden. It is notable for its wonderful variety of coloring and is of easy culture. Its peculiarly shaped and oddly marked flowers are fine for cutting. Finest mixed. Pkt. 10 cts.

STATICE
Sea Lavender

Excellent for cut-flowers, coming in many shades. Can be dried and used for winter bouquets. Start early inside. Height 2 ft. **Bonduelli** (yellow), **Sinuata** (blue), **Sinuata hybrida**, and **Mixed**. Each, Pkt. 10c.

STOCKS

For an early and profuse display of brilliant flowers

These free-blooming plants are easy to grow either in beds or pots. Almost all the varieties have long, handsome spikes of fragrant flowers, which are admirable for cutting and remain fresh a long while. The Ten-Weeks Stocks are especially popular because they bloom so soon after the seed is sown.

LARGE-FLOWERING TEN-WEEKS

The plants flower ten to twelve weeks after the seed is sown. We offer a magnificent strain of this in separate colors:

Pure White, Flesh-colored, Dark Crimson, Dark Pkt. Blood-Red, Light Blue, Pink, Scarlet, Dark Blue, and Mixed.....Each, \$0 15

CUT-AND-COME-AGAIN STOCKS

An unusually free-blooming species. The plants grow about 2 feet high, and send out numerous side branches, each of which bears a cluster of fragrant flowers, beautifully shaped and very double. From spring until late in fall the plants are covered with flowers, and they thrive equally well in pots or beds. **White and Mixed Colors**. Each, pkt. 15 cts.

VIRGINIAN STOCKS

Pretty, profuse-flowering little plants about 1 foot tall, with clusters of red and white flowers. 1/4oz. 25 cts., pkt. 10 cts.

VERBENAS

Plants from seed sown early in spring keep their beds gay with flowers from midsummer until frost. They are trailing in habit, and wide-spreading, loving a rich, sandy soil, plenty of room, and full sunshine. No finer seed than ours can be procured anywhere.

Mammoth Varieties. This superb strain is a great improvement on the older varieties, both in size and color of flowers and habit of plants. The florets average an inch in diameter, and have clearly defined margins and large, white centers. The trusses are large in proportion, and borne in great profusion, upon robust, vigorous plants. Seed from finest flowers. **Pink, Purple, Scarlet, White, and Mixed**.....1/8oz. 50 cts...\$0 10

Nana compacta. New dwarf varieties of very dwarf and spreading habit, requiring no pegging down. **Mixed**..... 10

ZINNIAS

These glorious flowers are borne on strong, stiff stems, making them of the greatest value as cut-flowers for vasing, and in the flower-garden they stand perfectly erect, showing them in all their beauty.

GIANTS OF CALIFORNIA

The finest strain of Giant Zinnias on the market. **Mixed Colors**, pkt. 15 cts.

GIANT DOUBLE DAHLIA-FLOWERED ZINNIAS

The latest development in Zinnias, bearing flowers of mammoth size and in form like a perfect Decorative Dahlia. Grand mixture. Pkt. 10 cts.

Elegans grandiflora robusta plenissima.

	1/4oz.	Pkt.		1/4oz.	Pkt.
Purple.....	\$0 40	\$0 15	White.....	\$0 40	\$0 15
Rose.....	40	15	Yellow.....	40	15
Scarlet.....	40	15	Lilac.....	40	15

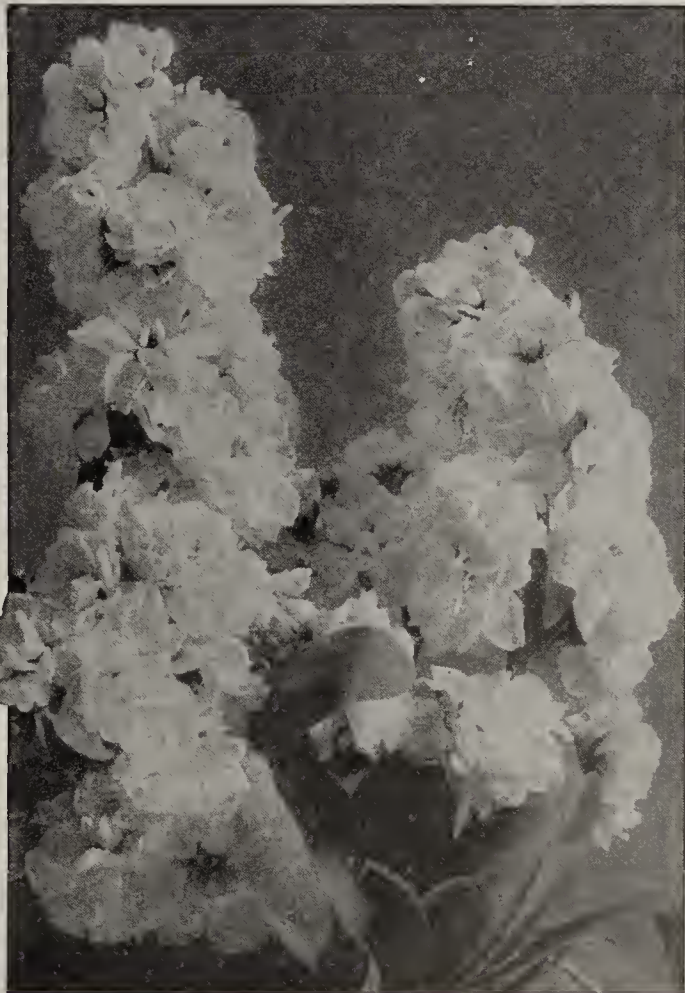
One pkt. of each, 75c. Mixture of above colors, 1/4oz. 40c., pkt. 15c. **Elegans, Curled and Crested.** Finely varied flowers..... Pkt. 1/4oz. 50 cts...\$0 10

Parviflora. The Lilliput-flowered Zinnias. Tiny flowers of double, perfect form; unique and charming for bouquets. All colors.....1/4oz. 40 cts... 10

FLOWER SEEDS FOR WILD GARDENS

These mixtures contain many beautiful and interesting annuals. They are intended to produce a display without the care necessary to regularly kept flower-beds.

Dwarf Wild Garden Flower Seeds. Pkt. 10 cts., 6 pkts. 50 cts. **Tall Wild Garden Flower Seeds.** Pkt. 10 cts., 6 pkts. 50 cts.



Large-flowering Ten-Weeks Stocks

STIM-U-PLANT

PLANT STIMULANT TABLET

Is plant-food in tablet form, containing 11 per cent nitrogen, 12 per cent phosphoric acid and 15 per cent potash. Stim-U-plant tablets are the richest plant tablets sold for use in stimulating all flower, vegetable and ornamental plants. These plant tablets promote a luxuriant, vigorous growth of branch, leaf, and flower. Try them on your house plants and they will become strong and healthy. Complete directions with package. Trial size, 15 cts. Small size, 25 cts. Medium size (100 tablets), 75 cts. Large size (1,000 tablets), \$3.50.

SEEDS OF ORNAMENTAL FOLIAGE PLANTS

FOR SUMMER BEDDING, BORDERS AND POT CULTURE

ACANTHUS • Bear's Breech

Latifolius. A tall, herbaceous perennial of beautiful Pkt. and stately habit, grown for its rich tropical leafage. Handsome and effective, whether grown as a center for foliage beds or as a specimen plant for lawns and borders..\$0 10

AMARANTHUS

Tall-growing plants; showy leaves, variegated with shades of red, yellow and green; long racemes of flowers. Annual.

Caudatus. *Love-lies-bleeding.* Blood-red flowers on plants Pkt. 3 feet tall.....\$0 10
Cruentus. The well-known Prince's Feather..... 10
Henderi. Ornamental foliage..... 10
Sunrise. Used in parks and private gardens..... 15
Tricolor. *Joseph's Coat.* Leaves are a mosaic of color.... 10

CENTAUREA • Dusty Miller

Silver-leaved plant, indispensable for ribbon beds and borders, the soft, natural tints of grayish green being very effectual in harmonizing contrasts in more brilliant leaves. Annual.

Candidissima. Leaves broader and whiter than in any Pkt. other silver-leaved sort.....\$0 10
Gymnocarpa. Very graceful variety..... 10

CINERARIA

Maritima. Another fine silver-leaved plant. Leaves are silvery white; flowers yellow..... 10

COLEUS

The leaves are of many shapes and bright colors, and nearly all varieties have a rich, velvety appearance. Seed sown in March or April will produce fine plants for bedding. Pkt. 15 cts.

EUPHORBIA

Heterophylla. *Painted Leaf.* Glossy green leaves, forming Pkt. large bracts on the ends of the branches, changing in mid-summer to brilliant scarlet. Annual.....\$0 10

Variegata. *Snow-on-the-Mountain.* Of robust growth, with fine green leaves, striped with white. Annual..... 10

PERILLA

Nankinensis. A beautiful half-hardy annual plant. Leaves rich, dark purple, fringed. Contrasts with silver-leaved foliage plants. Annual..... 10

PYRETHRUM

Aureum. *Golden Feather.* A hardy annual with golden yellow finely cut foliage, producing rich, soft effects in bedding. Hardy Annual..... 10

RICINUS • Castor-Oil Bean

Plants of stately growth; fine fruits and leaves. Annual.
Bourboniensis arboreus. Grows 15 feet high; leaves enormous.....Oz. 25 cts... 10
Cambogensis. Red-black stems; very dark leaves; very distinct.....Oz. 25 cts... 10
Gibsoni. *Duchess of Edinburgh.* Dark purple leaves and stems.....Oz. 25 cts... 10
Zanzibarensis. The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. Mixed.....Oz. 25 cts... 10

SEEDS OF HARDY PERENNIALS

MANY PERENNIALS BLOOM THE FIRST SEASON IF SOWN EARLY

ACHILLEA

Ptarmica, The Pearl. Abundance of small white flowers Pkt. for cutting..... $\frac{1}{8}$ oz. 75 cts...\$0 15

ACONITUM • Monkshood

Napellus grandiflorum. Curious, helmet-shaped blooms, quite pretty and striking, produced on tall racemes above the finely cut foliage. Very prodigal of its large, bright blue flowers from midsummer until late in autumn..... 10

ADONIS

Vernalis. A bright, early spring plant, with large, showy flowers of sunshiny yellow..... 10

AGROSTEMMA

Coronaria. *Rose Champion.* Exceedingly pretty and graceful flowers in red, violet, white, and variegated. Mixed... 10

ALYSSUM

Saxatile compactum. Low-growing, with light green, silky foliage; golden yellow flowers. For shaded places.... $\frac{1}{4}$ oz. 50 cts... 10

ANCHUSA

Italica, Dropmore. Very popular. Plants 4 feet high with numerous rich gentian-blue flowers. Excellent for cutting. 15

ANEMONE • Windflower

Fine Mixed. Old favorites, and among our earliest spring flowers. Various shades of scarlet, purple, blue and white, sometimes striped..... 10

ARABIS

Alpina. *Rock Cress.* Pure white flowers borne on erect spikes; blooms very early. 9 in..... $\frac{1}{4}$ oz. 25 cts... 10

ANTIRRHINUM MAXIMUM • Giant Snapdragon

The finest type of Snapdragon originated to date. They make vigorous plants 3 to 3½ feet high, the long stems bearing spikes of exquisitely formed flowers perfectly adapted for cutting and garden decoration. We offer a selection of the finest, clearest new colors, as well as an excellent mixture of all varieties.

Maximum, Apple Blossom, delicate pink, white throat; Pkt.
Canary Bird, delicate yellow; **Cerberus,** dark purple with white; **Maralda,** coppery carmine; **Old Gold,** golden orange; **Rose,** pure rose; **Snowflake,** lovely pure white; **Mixed Colors**.....Each, \$0 10
Semi-Dwarf, Mixed..... 10
Tom Thumb, Mixed. All colors; fine for bedding..... 10

ARMERIA • Sea Pink; Thrift

Formosa hybrida. Pink shades. Edging plant..... $\frac{1}{4}$ oz. 50 cts... 10

ASPERULA

Odorata. *Sweet Woodruff.* Free-flowering plants which thrive well in shaded places. Flowers white, sweet-scented. 1 ft..... $\frac{1}{4}$ oz. 30 cts... 10

AQUILEGIA • Columbine

Very handsome and free-blooming plants, bearing curiously shaped flowers in many bright and delicate colors. They grow about 2 feet tall.

Chrysantha grandiflora alba. Long-spurred Columbine. Pkt. Large, snow-white flowers..... $\frac{1}{8}$ oz. 50 cts...\$0 10
Chrysantha grandiflora sulphurea. Soft sulphur-yellow..... $\frac{1}{8}$ oz. 50 cts... 10
Vulgaris. Odd and very pretty double flowers. **Blue and White**..... $\frac{1}{8}$ oz. 50 cts... 10
Double Mixed..... 10
Single Mixed..... 10
ASTERS, Large-flowering Mixed. *Michaelmas Daisies.*.. 10

PERENNIAL PLANTS IN SEASON

BELLIS PERENNIS • Double English Daisy

This dainty little flower is a favorite everywhere. It is of easy culture, and grows well in all soils, if given a rather moist, shaded situation. Flowering plants grow readily from seed sown in the border in early spring, or in boxes in the house. They seldom exceed 6 inches in height, and bloom from spring until mid-summer; in some localities sparingly in autumn. An exquisite plant for shady borders and for edgings to beds, or for window-boxes in a cool room, forming rainbows of pink and white. Pkt.

Flore-pleno. Flowers double. Mixed colors. $\frac{1}{8}$ oz. 50 cts. \$0 10

Longfellow. The bright rose-colored flowers are very large and double, and borne on long, stiff flower-stalks. An exquisite flower for cutting. 10

Snowball. A pure white variety with very large, perfect flowers on long stems. 10

BOLTONIA • False Chamomile

Asteroides. One of the showiest of the hardy perennials. Small, daisy-like flowers in white and lilac. Blooms July to September. Height 4 to 6 ft. 15

CAMPANULA • Bellflower

Carpatica. *Harebell.* Free-flowering with erect flowers. Useful for edging. Height 6 in. Colors, Blue and White. 10

Medium. *Canterbury Bell.* Produces large, nodding, single, bell-shaped flowers in many beautiful shades. Striped, Dark Blue, Rose, White, Mixed. $\frac{1}{8}$ oz. 50 cts. 10

Double Mixed. 15

Medium calycanthema. *Cup-and-Saucer.* Handsome flowers in many tints of blue, rose and white.

Single Mixed. $\frac{1}{8}$ oz. 40 cts. 10

Double Mixed. 15

Pyramidalis. Flowers in many shades of blue. Mixed. $\frac{1}{8}$ oz. 30 cts. 10

COREOPSIS • Tickseed

Grandiflora. Very large, golden yellow flowers on long stems, useful for cutting. 10

Grandiflora fl.-pl. Same, only double 10

DELPHINIUM

Indispensable to the hardy garden, because of their long, graceful spikes of bright blue flowers.

Elatum Belladonna Hybrids. Blue shades. $\frac{1}{8}$ oz. 50 cts. \$0 15

Elatum hybridum. Double varieties, mixed. Blue shades. $\frac{1}{8}$ oz. 50 cts. 15

Blackmore & Langdon Strain. Finest race of mixed hybrids. All wonderful blue shades. See front cover. 15

Hollyhock Strain. Enormous spikes of large flowers in superb shades of blue, violet, and mauve. The most precious of all varieties. $\frac{1}{8}$ oz. 90 cts. 15

Nudicaule. Scarlet; interior peach-red. $\frac{1}{8}$ oz. 90 cts. 15

DIANTHUS • Pinks

Barbatus. *Sweet William.* Attractive, profuse-blooming garden plants. The flowers have a quaint perfume. Single or Double, Mixed. Seed from fine flowers of many colors. 10

Double Hardy Garden or Grass Pink. This species is in perfection about the first of June. $\frac{1}{4}$ oz. 30 cts. 10

Plumarius. *Double Pheasant's Eye Pink.* Double, fragrant, fringed flowers, white, crimson, or purple. $\frac{1}{4}$ oz. 60 cts. 10

DIGITALIS • Foxglove

A stately, handsome, biennial plant, from 3 to 4 feet high. Its fine waxen flowers droop gracefully from long spikes, upon which they are set thickly. Among shrubbery, or as a background for lower plants, it gives great satisfaction. Colors: White, Pink, Purple, and Mixed, each, pkt. 10 cts.

Lutzi. Salmon. Pkt. 15 cts.

DIELYTRA • Bleeding-Heart

Spectabilis. Long racemes of graceful, heart-shaped, pink flowers. Used for forcing. Also at home in hardy borders, especially in shady places. \$0 50

GAILLARDIA

Aristata (grandiflora). Splendid new perennial variety, Pkt. with very large, handsome flowers, having dark crimson centers marked with rings of many brilliant colors. \$0 10

GYNERIUM

Argentea. *Pampas Grass.* The silvery plumes are very light and graceful in effect, and are much used for all sorts of indoor decoration. For clumps upon lawns, the plant is elegant and striking, and usually grows from 6 to 8 feet high. Requires winter protection. $\frac{1}{8}$ oz. 40 cts. 10

GYPSOPHILA • Baby's Breath

Paniculata. A dainty, mist-like plant, with sprays of small, white, star-shaped flowers and delicate foliage. 10

HEUCHERA • Coral Bells

Sanguinea. Spikes of vivid crimson flowers. Excellent for cutting. Height 1 ft. 15

HOLLYHOCKS (Chater's Superb Strain)

Separate Colors. Pure White, Scarlet, Golden Yellow, Peach, Pink, Newport Pink, and Mixed, each, $\frac{1}{8}$ oz. 30 cts., pkt. 10 cts.; the 6 varieties for 50 cts.

IBERIS • Candytuft

Sempervirens. White blossoms in May. Height 9 in. \$0 15

LAVANDULA

Vera. *Lavender.* Grown for its leaves and flowers, which retain their fragrance when cut and dried. 10

LIATRIS • Blazing Star

Showy flowers in long spikes; very effective among other perennials or shrubs. Foliage grass-like. Height 1 to 1 $\frac{1}{2}$ ft. Pkt.

Callilepis. Deep lilac. \$0 15

Spicata. Purple-rose. 15

LOBELIA

Cardinalis. *Cardinal Flower.* Long spikes of intense scarlet flowers. One of the most brilliant plants. 15

LUPINUS • Lupine

Polyphyllus. New Hybrids. A wonderful mixture. 10

LYCHNIS • Jerusalem Cross

Haageana hybrida. Handsome plants of easy culture for massing in beds or borders. Will bloom first year if sown early. Height 1 $\frac{1}{2}$ ft. Mixed colors. 10

MYOSOTIS • Forget-me-not

Palustris. *True Forget-me-not.* Flowers bright blue, with a large golden yellow eye. $\frac{1}{4}$ oz. 75 cts. 10

Rosea. Rose-colored variety of the Victoria. $\frac{1}{8}$ oz. 40 cts. 10

Victoria. A dwarf variety, which forms shapely, rounded plants, and is well adapted to pot culture, although it loves the hardy garden quite as well. Sky-blue flowers in thick clusters, the center being double. $\frac{1}{8}$ oz. 40 cts. 10

PAPAVER

Nudicaule. *Iceland Poppy.* Hardy perennial. Will blossom the first year if planted early. Of graceful habit, coming in a variety of colors. Single or Double Mixed. 15

Orientele. Large, brilliant flowers. The loose, silken petals have a blotch of black at the base. The plants are about 2 feet high. Scarlet and Mixed. $\frac{1}{8}$ oz. 35 cts. 15

Orientele, Princess Victoria Louise. Enormous silken flowers of glowing salmon-pink marked by glossy black blotches at the base of the petals. Exceedingly handsome and showy. 2 $\frac{1}{2}$ ft. 15

PENTSTEMON

Barbatus. *Beard Tongue.* Blooms from early summer until frost. The flowers are white, blue, scarlet, crimson, yellow, etc. Mixed. 10

PHLOX

- Decussata.** *Perennial Phlox.* Fine clumps of these plants form magnificent lawn and garden ornaments, and nearly all bright colors are represented in the large and handsome flower-heads. Pkt. \$0 15
- Drummondii.** See Annuals.

PHYSALIS • Chinese Lantern Plant

- Francheti.** Ornamental plants, producing a profusion of orange-scarlet flowers and fruit. Height 2½ ft. 10

PHYSOSTEGIA • Dragonhead

- Virginiana.** Rosy lilac, delicate tubular flowers similar to gigantic heather. Height 4 ft. 10
- Virginiana gigantea.** Lilac-rose. 10

POLEMONIUM • Jacob's Ladder

- Cæruleum grandiflorum.** Popular border plants, with bell-shaped, bluish purple flowers. Height 2 ft. 10

PRIMULA • Primrose

- Cowslips or Hardy Primroses are favorite early spring flowers with clusters of bright blossoms in different shades of red and yellow. The clumps increase rapidly. Pkt.
- Auricula.** Mixed seed of best varieties. \$0 25
- Japonica.** Mixed colors. 10
- Veris (Polyanthus).** Showy outdoor plants. 15
- Vulgaris.** The true, fragrant yellow Primrose. 15

PYRETHRUM

- Hybridum, Single Mixed.** Bearing large daisy-like flowers. Blooms in May and June, and again in the fall, and is one of the most graceful and long-lasting cut-flowers. 1/8 oz. 40 cts. 10

SALVIA

- Pratensis atrovioacea.** A dark violet perennial variety. 15

STATICE • Sea Lavender

- Splendid for rockery or border. Flowers may be dried and used for winter bouquets. Height 2 ft. Fine Mixed. Pkt. 10 cts.

SEEDS FOR GREENHOUSE OR POT CULTURE

ASPARAGUS

- Grown for its delicate, fine foliage. Pkt.
- Plumosus nanus.** *Asparagus Fern*. \$0 10
- Sprengeri.** *Emerald Feather*. 15

BEGONIAS

- Vernon.** Dark-leaved. Strong, dwarfish, branching plant valuable for bedding. The coral-red flowers cover it thickly all summer long. 25
- Tuberous-rooted.** Fresh seed from fine plants; will give large flowers of various shapes and colors. The tubers must be lifted and stored in dry sand, in a dry, warm place in autumn. Mixed, Double and Single. 25

CACTUS

- Mixed.** All classes. 15

CALCEOLARIA

- Large curiously shaped and oddly marked self-colored flowers.
- Grandiflora.** A great diversity of colors. Mixed. 25

CINERARIA

- Hybrida grandiflora.** A distinct and showy window plant that blooms when its brilliant velvety flowers are most appreciated. Separate colors or Mixed. 25

CYCLAMEN

- Giganteum.** The choicest strain of this flower obtainable. Mixed colors. 25

SCABIOSA • Mourning Bride

Free-flowering sort with semi-double flowers about 2½ inches across. Good border plant. Pkt.

- Caucasica.** Lilac. \$0 10
- Japonica.** Delicate lavender-blue. 10

SILENE • Catchfly

- Asterias grandiflora.** Showy plants having carmine-scarlet globular heads; should be in every garden. Height 1½ ft. 10

STOKESIA

- Cyanea.** *Stokes' or Cornflower Aster.* Lavender-blue flowers from July until frost. Height 2½ ft. 10

SWEET ROCKET • Hesperis

- Matronalis.** Fragrant purple flowers in spring. Height 3 ft. 10

THALICTRUM

- Dipterocarpum.** One of the real gems among the hardy perennials. Violet-mauve. Height 3 to 4 ft. 15

TRITOMA • Red-Hot Poker; Torch Lily

- Uvaria grandiflora.** Mixed colors. Height 3 ft. 10

VERONICA • Speedwell

- Mixed.** Mostly blue shades. Height about 2 ft. 10

VIOLA

- Odorata.** *Sweet-scented Violet.* Well-known, delightfully fragrant little flowers, which bloom most freely in early spring and fall. The seed should be sown early. Blue or Mixed. 10

WAHLENBERGIA • Tufted Harebell

- Grandiflora (Platycodon grandiflorum).** *Japanese Bell-flower.* Large, steel-blue flowers. Height 2½ ft. 10

WALLFLOWERS • Cheiranthus

Exquisite perfume and rich, quaint, bright colors—usually brownish red, yellow and violet—should be in every garden. When grown in the open ground, the plants should be potted in autumn. Will bloom in winter if kept cool. Pkt.

- Single Mixed.** \$0 10
- Double Mixed.** 20

CHOICE CARNATIONS

- Early-flowering Vienna.** All colors. Choice mixed. Pkt. \$0 25
- Early Grenadin.** Bright scarlet flowers, 60 to 70 per cent of them double; very early-flowering. 25
- Perpetual or Tree.** Tall plants, continually in flower; 75 per cent of flowers are double. Choice mixed. 50

GLOXINIA

- Hybrida.** The waxen flowers are large, bell-shaped, and richly colored, producing grand effects when different sorts are grouped together. Choice mixed. 25

IMPATIENS • Sultan's Balsam

- Sultani Hybrids.** Colors range from pale pink to dark crimson. 25

PRIMULA • Chinese Primrose

These plants are easily grown from seed and are noted for their rich, profuse, and prolonged display of flowers in winter. Full directions for culture are given on our packets.

- Sinensis fimbriata.** Very large flowers; delicately fringed. Pkt. \$0 25
- Crimson and Mixed.**

VINCA • Periwinkle

- Rosea.** Ornamental, free-blooming plants with shiny foliage. Colors from white to pink and red. Mixed. 10

ORNAMENTAL CLIMBERS

AMPELOPSIS

Veitchi. *Japan or Boston Ivy.* A beautiful vine for covering walls and buildings, to which it adheres closely. The leaves color beautifully in autumn. Peren. $\frac{1}{4}$ oz. 20 cts...\$0 10

ARISTOLOCHIA • Dutchman's Pipe

One of the best-known hardy climbers, bearing curious pipe-shaped flowers of yellowish brown color. Large heart-shaped leaves; fine for shading verandas. Perennial.

Elegans. Purple and white flowers. 30 ft. Pkt. \$0 15
Sipho. Yellowish brown flowers. 30 ft. 10

BALLOON VINE

Rapid grower; flowers white; seed-pods shaped like miniature balloons. Annual. 10 ft. Pkt. 10 cts.

BEANS, RUNNER

Scarlet or White. Pkt. \$0 10

CLEMATIS • Virgin's Bower

Hybrida grandiflora. Fine for arbors and verandas. Soak seeds 24 hours in warm water before sowing. Perennial. Mixed. 10

CENTROSEMA

Grandiflora. Large, pea-shaped flowers, produced in clusters; rosy violet, with broad, feathered markings of white. Foliage abundant and graceful. A hardy perennial, climbing 6 to 8 feet in a season, free blooming. 10

COBÆA

Scandens. A tender annual of very rapid and luxuriant climbing habit. The deep violet-blue flowers are large and bell-shaped, averaging 2 inches in length and $1\frac{1}{2}$ inches across. $\frac{1}{4}$ oz. 40 cts... 10

DOLICHOS

Lablab. *Hyacinth Bean.* Noted for its large clusters of snowy white or purple flowers. It grows rapidly and makes a fine screen of thick foliage. A tender perennial. Oz. 30 cts... 10

ECHINOCYSTIS

Lobata. *Wild Cucumber.* Quickest growing vines; fine for covering waste places and stone walls. Annual. 20 ft.. 10

GOURDS, ORNAMENTAL

Quick-growing tender annual vines, desirable for covering arbors, walls, etc., and producing useful and ornamental fruit in great variety of shapes and colors. 15 to 20 ft. Annual. Oz. 50 cts., pkt. 10 cts.

HUMULUS • Japanese Hop

Annual climbers of very rapid growth, with dense foliage. The leaves remain bright, fresh, and rich-looking until late in the fall.

Japanicus. Leaves plain green. Seed sown in early spring produces plants which will cover a wide spread in a short time. Annual. Pkt. \$0 10

Japanicus variegatus. Leaves broadly edged with cream color and marked and shaded with silvery white and deep green; often a whole branch and its leaves will be pure white. It is very vigorous and hardy. 10

IPOMCEA • Morning-Glory

This popular climber is so widely grown that it does not require any further introduction. Annuals.

Grandiflora. *Moonflower.* The large pure white flowers of this plant open at night; produced in great abundance, and quite fragrant. Pkt. Oz. 50 cts...\$0 10

IPOMCEA, continued

Heavenly Blue. Foliage very large and heart-shaped; flowers 4 to 5 inches across, borne in large clusters; light blue, with yellow throats. $\frac{1}{4}$ oz. 30 cts...\$0 10

Imperialis. *Japanese Morning-Glory.* A great improvement over the old-fashioned sorts. Flowers are larger, fringed, some double, and appear in unlimited variety of colors. Foliage is very large and often variegated. 10 ft. Oz. 40 cts... 10

Leari. Flowers violet-blue; an elegant greenhouse species. 15

Purpurea (*Convolvulus major*). Showy annual climber of easiest culture, in many brilliant colors. 25 feet. Oz. 20 cts... 10

Quamoclit. *Cardinal Climber.* Delicately cut foliage and small, star-shaped flowers of scarlet or white. Mixed. $\frac{1}{4}$ oz. 60 cts... 10

Setosa. *Brazilian Morning-Glory.* Beautiful rose-colored flowers and huge leaves; remarkably luxuriant in growth. Oz. 50 cts... 10

LATHYRUS

Latifolius. *Everlasting Pea.* Hardy perennial climber, growing 6 to 8 feet high when trained on a trellis. Flowers borne in large clusters. Red and White, mixed. $\frac{1}{4}$ oz. 25 cts... 10

MAURANDIA

Graceful annual climber for window or conservatory; admirable to hang from vases and to cover stumps and low trellises; blooms very freely. Annual. Pkt. 20 cts.

SMILAX

Used extensively for inside decorations; climbing habit; fine for florists' use. 10 ft. Pkt. 10 cts.

THUNBERGIA • Black-eyed Susan

Alata. Half-hardy annual climbers. Choice mixed colors...\$0 10

NASTURTIUMS • Tropæolum

The gay and picturesque Nasturtiums are almost as popular among climbers as sweet peas. Their rapid and luxuriant growth quickly covers trellises, verandas, fences, or any unsightly object with a beautiful mass of oddly pretty leaves and brilliant flowers.

Finest Mixed. Seed saved from a choice collection of flowers, in many colors; will produce charming results if planted freely in ground that is not too rich. Annual...\$0 15

SWEET PEAS

Fashion does not always display so much good taste in her choice of a "pet flower" as when giving the Sweet Pea that place. Already they have become so popular that seedsmen must handle their seeds by the ton, and they are grown galore in hedges, sold in great fragrant heaps from the markets, and worn and carried whenever and wherever possible. Every garden must have its hedge of Sweet Peas, and we are ready to supply you with the best of seed.

GIANT SPENCER

Asta Ohn. Pinkish lavender. **Matchless.** Yellow.
Countess Spencer. Pure pink. **Wedgwood.** Blue.
King Edward Spencer. Pure white, select strain.
red.

Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Mixed Colors. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.
Eckford Grandiflora Varieties, Mixed. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 90 cts.

DAHLIAS

These summer- and autumn-flowering plants are more popular than ever. They should not be planted until the weather has become warm and settled in spring, and should be taken up before severe frosts in autumn. One shoot should be allowed to each root. During winter, keep roots in a warm, dry place.

We have three excellent Collections to offer this year at a very low price.

No. 1 Collection for \$1.50

Mrs. William Slocombe
George H. Carr
World's Best White

Catherine Wilcox
Jersey's Glory
Glory of Holland

No. 2 Collection for \$1.25

Elite Gem
Morris Beals
Kathleen Norris

Jersey's Glory
Winhoka Wonder

No. 3 Collection for \$2.50

Jane Cowl
Sanhican's Purple
Barbara Redfern

Allen Kennedy
Jersey's Glory
Emma Marie

Mixed Dahlias \$1 per doz.

These bulbs are all guaranteed true to name and to be first-quality roots. For those who prefer to make their own selections, we can supply named varieties at very attractive prices. We will mail a list of Dahlias in separate varieties to anyone who wishes one.

GLADIOLUS

Of summer-blooming plants for general garden decoration, the Gladiolus are deserving of special attention. Requiring but little room for growth, they are exceedingly useful for planting among shrubbery in the border, while for massing in large beds, where a brilliant and effective display is desired, they are invaluable. They succeed best in good loam, enriched with well-rotted manure. Bulbs should be planted about 3 inches deep and 6 inches apart. All our Gladiolus are No. 1 top-sized bulbs and will produce fine, healthy blooms.

If wanted by mail, add 10 cts. per doz. for postage

Alice Tiplady. One of the best Primulinus Hybrids. Glowing orange flowers with golden throat. Excellent for cutting. 50 cts. per doz., \$3.75 per 100.

America. One of the best Gladiolus in existence. The color is a most beautiful soft pink, very much like the Enchantress carnation. 45 cts. per doz., \$3 per 100.

Anna Eberius. Wide-open, deep velvety purple flowers with throat shaded deeper. An unusual color. 60 cts. per doz., \$4 per 100.

Baron Hulot (Blue King). Good sized flower, well arranged on straight spikes; color dark violet bordering on blue. 60 cts. per doz., \$4 per 100.

Byron L. Smith. White, suffused light mallow-purple; throat yellow, etched with purple. The effect is soft lavender. 50 cts. per doz., \$3.75 per 100.

Crimson Glow. Very large, velvety red flowers of fine form. Recommended for exhibition and cutting purposes. 50 cts. per doz., \$3.75 per 100.

Evelyn Kirtland. Color pink—a very lovely, soft shade. Altogether one of the most popular varieties. 45 cts. per doz., \$3 per 100.

Golden Measure. Large, slightly ruffled blooms on tall spikes. Deep golden yellow without any markings. 50 cts. per doz., \$3.75 per 100.

Halley. Delicate salmon-pink predominates with a slight rosy tinge; lower petals have a creamy blotch with a bright red stripe in center. 45 cts. per doz., \$3 per 100.

Herada. The color is pure mauve, glistening and clear with deeper markings in throat. 60 cts. per doz., \$4 per 100.

Le Marechal Foch. Large, delicate peach-pink flowers with scarlet-red blotches on the throat. A fine variety. 45 cts. per doz., \$3 per 100.

Lily White. A beautiful pure white, with lavender anthers; flowers very large; first class in every way. 50 cts. per doz., \$3.75 per 100.

Mr. Mark. Violet flowers with a yellow throat blotched with purple. One of the best of the light blue varieties. 50 cts. per doz., \$3.75 per 100.

Mrs. Dr. Norton. Graceful spikes of immense white flowers edged with soft pink. A choice variety. 40 cts. per doz., \$3 per 100.

Mrs. Frank Pendleton. The color is a delicately flushed salmon-pink, extending to the reverse side of the petal. Each flower is doubly enhanced by a rich, maroon blotch on the three lower petals. 50 cts. per doz., \$3.75 per 100.

Mrs. Francis King. The light scarlet flowers are very large, usually measuring from 3½ to 4 inches in diameter. 45 cts. per doz., \$3 per 100.

Peace. Very large, pure white flowers, tinted with violet on the lower petals. 50 cts. per doz., \$3.75 per 100.

Schwaben. A most meritorious variety. Clear canary-yellow, with a small blotch of deep garnet in the throat. 60 cts. per doz., \$4 per 100.

W. E. B. Co.'s Special Mixture. 40 cts. per doz., \$2.75 per 100.

CANNAS

One of the finest bedding plants for color of blooms and foliage. Fine for large bedding effects or for borders.

City of Portland. Rose-colored flowers produced in large clusters. 4 ft.

Gladiator. Deep yellow, freely dotted with red. 4½ ft.

King Humbert. Orange-scarlet flowers surmount beautiful coppery bronze foliage. 5 ft.

Meteor. Deep red. 4 ft.

Richard Wallace. Canary-yellow flowers. 4 ft.

The Ambassador. Brilliant red. Bronze foliage. 5 ft.

The Gem. Deep cream, with carmine dots. 4½ ft.

The President. The finest red Canna. 5 ft.

Uhlberg. Rosy carmine, with cream-yellow marking. 3½ ft.

Wintzer's Colossal. Orchid-type flowers; brilliant scarlet. 5 ft.

Wyoming. Orange flowers. Bronze foliage.

Yellow King Humbert. Yellow with red dots. 4½ ft.

All varieties: 20 cts. each, \$2 per doz.

BEGONIA, Tuberous-Rooted

For bedding and as pot-plants, these beautiful flowers are very desirable and popular. They bloom continuously all summer; flowers are very large, outrivaling those of the most brilliant geraniums. The flowers are circular, large, and of great substance; the colors are most beautiful, rich, and varied.

SINGLE-FLOWERING

Rose, Scarlet, White, Yellow, and Orange. 20 cts. each, \$2 per doz.

Finest Mixed. From above sorts. 20 cts. each, \$2 per doz.

DOUBLE-FLOWERING

Red, Rose, White, and Yellow. 20 cts. each, \$2 per doz.

Finest Mixed. From above sorts. 20 cts. each, \$2 per doz.

TUBEROSES

One of the most delightfully fragrant flowers. Invaluable for bouquets, buttonholes, and wherever cut-flowers are in demand. Before potting the bulbs remove the small offsets.

Excelsior, Double Pearl. A superior strain with very large white flowers, produced in great abundance. 60 cts. per doz., \$4 per 100.

Mexican Everblooming. Very fragrant, waxen white flowers on long, erect spikes. Plant the bulbs after all danger of frost has passed. Blooms from August onward. 60 cts. per doz., \$4 per 100.

FALL BULBS

We carry a complete line of Bulbs for autumn planting—Crocuses, Hyacinths, Narcissus, Tulips, etc.

Best-Grade Vegetable Seeds

FOR FARM, MARKET, AND KITCHEN GARDENS BEST ADAPTED TO THIS CLIMATE

WE WILL FURNISH ACCURATE GERMINATION TESTS ON ALL OUR VEGETABLE SEEDS

ARTICHOKE

Globe Artichoke. A perennial cultivated for its flower-buds, which are cooked like asparagus. Sow seed in the greenhouse or hotbed in March, and when all danger of frost is over, set plants out about 3 feet apart. Mulch over winter, so that the crowns are not choked. Requires warm weather to grow to perfection. Pkt. 15 cts., ½oz. 40 cts., oz. 75 cts.

ASPARAGUS

This is one of the first and finest spring relishes which come to the table from the garden, and it really requires very little trouble in cultivation, since a bed once properly made and planted will last for years. The soil for the bed can hardly be made too rich, and the fertilizer should be well trenched in to the depth of 2 feet or more. The roots should be planted as early in spring as the ground can be prepared, setting them a foot apart in rows 3 or 4 feet apart, with the crowns from 4 to 6 inches below the surface of the bed. Asparagus seed may be sown directly in the permanent bed and the plants thinned as they grow; or it may be sown elsewhere, and the seedlings transplanted the second year. Fair crops may be expected the third year.

An ounce of seed will sow 50 feet of drill, and produce about 300 plants

Mary Washington. A variety of recent introduction. Very large and free from blight.

Palmetto. One of the earliest; of large and fine growth.

Asparagus Roots

Mary Washington. 2 years old.

INOCULATE THIS SEED WITH STIMULANT GERM. See page 34

BEANS

DWARF or BUSH

Beans are among our most valuable farinaceous foods, and form a market staple everywhere. The seeds should not be planted before the ground becomes light and warm, in favorable seasons usually about the first of May. Bush Limas should not be planted so early as other sorts, as Limas are particularly sensitive to cold and damp. The soil should be rich and mellow, and the seeds scattered about 3 inches apart in drills from 3 to 3½ feet apart, and covered about 2 inches deep. The plants will need frequent hoeing, but should never be cultivated when the leaves are wet with dew or rain, as this will cause them to rust. Sowings made at intervals of about two weeks until the middle of July will give a supply all season.

One quart of seed will sow 100 feet of drill; 2 bushels will sow an acre

WAX or YELLOW-PODDED BEANS

Golden Wax. A very popular variety. The vines are hardy, productive; pods long, straight, flattish, very fleshy and wax-like; of the best quality. Beans are small, oval, white, shaded purplish red.

Currie's Rustproof Wax. Valuable from the fact that it seems to be "rustproof," after having been tested with other Beans which rusted badly.

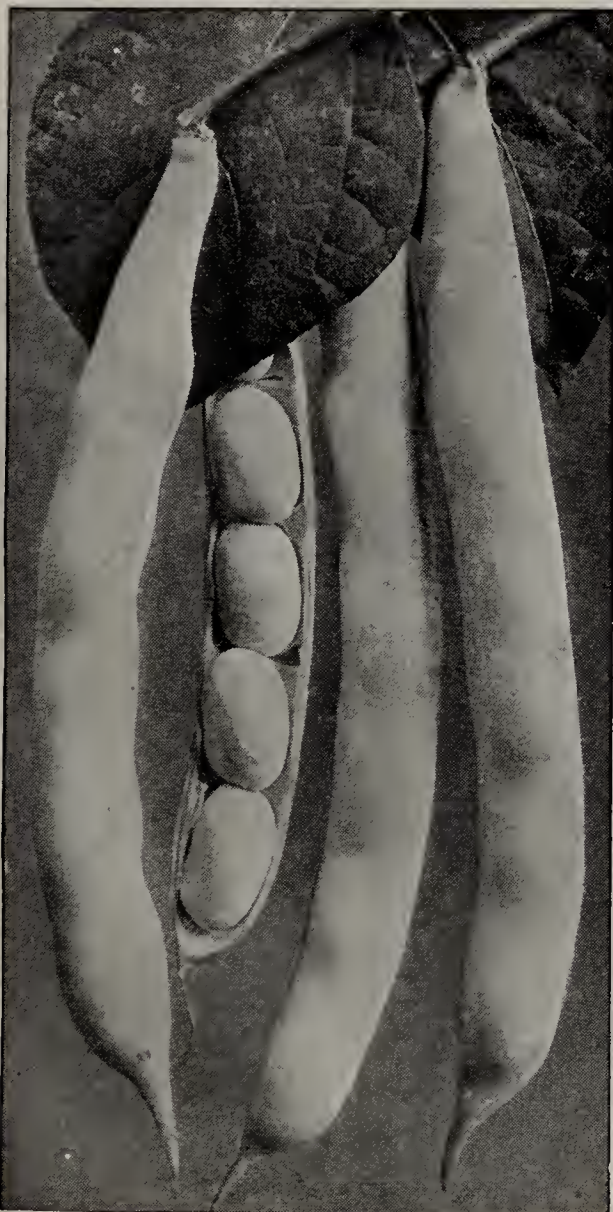
New Round-Pod Kidney Wax. One of the best round-podded Wax Beans.

Brittle Wax. The earliest of all Wax Beans, and extremely prolific. Fleshy, round, solid pods, tender, brittle, entirely stringless, with a rich flavor. The seeds are white with a black eye.

Golden-Eye Wax. Extremely vigorous. Pods clear, creamy white, very long, flat, but fleshy, stringless and of good quality; very free from blight and a heavy cropper. Popular in this vicinity.



Mary Washington Asparagus



Brittle Wax Beans

PRICES OF ASPARAGUS

	Pkt.	Oz.	½lb.	Lb.
Mary Washington	\$0 10	\$0 15	\$0 35	\$1 00
Palmetto	10	15	35	1 00
Roots of Asparagus, 2 years old.	\$1.50 per 100, \$12 per 1000.			

PRICES OF DWARF WAX BEANS

	½lb.	Lb.	2lbs.	7½ lbs.
Golden Wax	\$0 15	\$0 25	\$0 45	\$1 50
Currie's Rustproof Wax	15	25	45	1 50
New Round-Pod Kidney Wax	15	25	45	1 50
Brittle Wax	15	25	45	1 50
Golden-Eye Wax	15	25	45	1 50
Pencil Pod Black Wax	15	25	45	1 50

For Beans sent by mail, add postage at rate given in table on page 1



GREEN-PODDED BUSH BEANS

French Dwarf Horticultural. This variety, for a Shell Bean, is very popular. It is a heavy cropper; pods long and almost entirely scarlet in color, well filled. Does not blight.

Asgrow Valentine. *New.* A stringless black Bean of easiest culture, quick growing, hardy, prolific and a good shipper. Unsurpassed for market.

Black Valentine. One of the best varieties to raise for early market, because of its hardiness, earliness, and good cropping quality.

Bountiful. The pods are long, flat, of good quality, and entirely stringless; early and prolific.

Boston Favorite, or Goddard. Large, handsome pods, tender and fine for use as snaps; seeds very large and of delicious flavor, whether used green or dry. The bushes yield heavy crops.

Burpee's Stringless Green-Pod. This is an extremely early, hardy and productive variety bearing an abundance of handsome stringless green pods of fine quality.

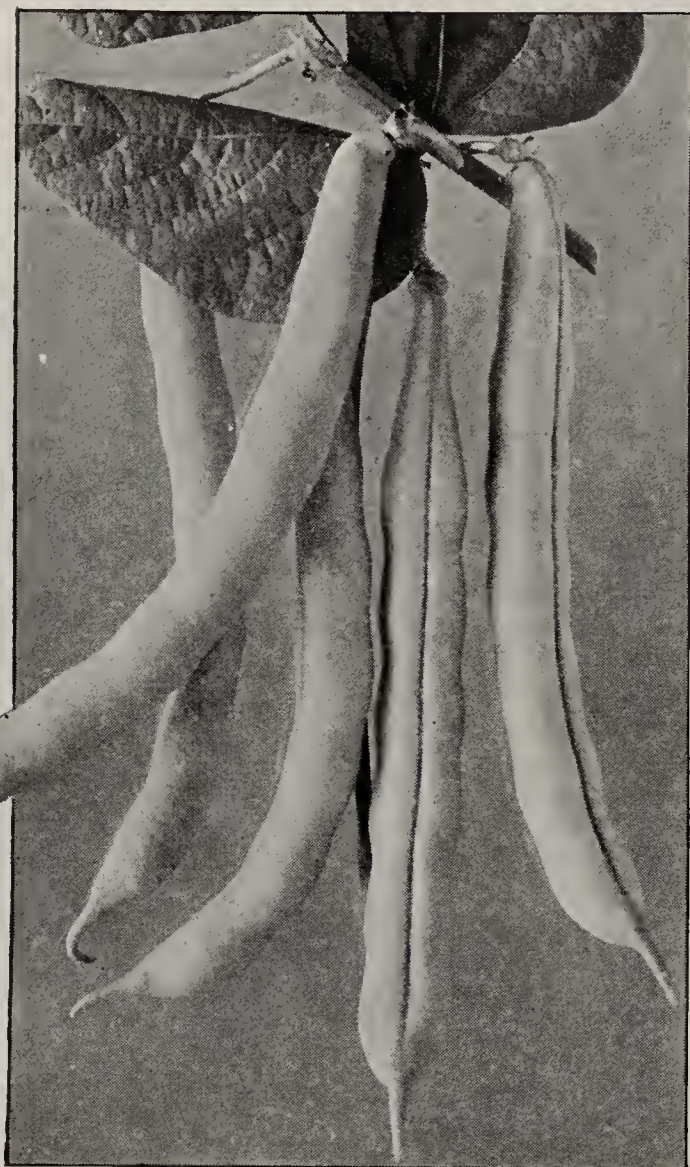
Ruby Dwarf Horticultural. Furnishes green-podded Beans of fine quality; the seeds are yellowish white, with red splashes; large, oval, plump, and are easily shelled.

Low's Champion. Very productive, with stringless, large, green, flat pods. Excellent either as a String or Shell Bean.

Tendergreen or New Stringless. A new variety of remarkably fine quality. Early, hardy, and very prolific. Tender, stringless, light green, round pods about 7 inches long.

INOCULATE THIS
SEED WITH
STIMUGERM

See page 34



Asgrow Valentine Beans

strong constitution of the plant is shown in its stout, thick stalks and large, deep green, leathery leaves, as much as in its enormous yield of thick, broad, handsome pods, which are as large and well filled as those of the Pole Limas; as many as 200 pods have been counted on a single plant. Identical in size and flavor with the Pole Limas, having the same rich, buttery taste, and preferred by many to that variety.

Henderson's Bush Lima. Two weeks earlier than the Pole Limas, and the bushes bear long and continuously. Beans of the small Sieva type.

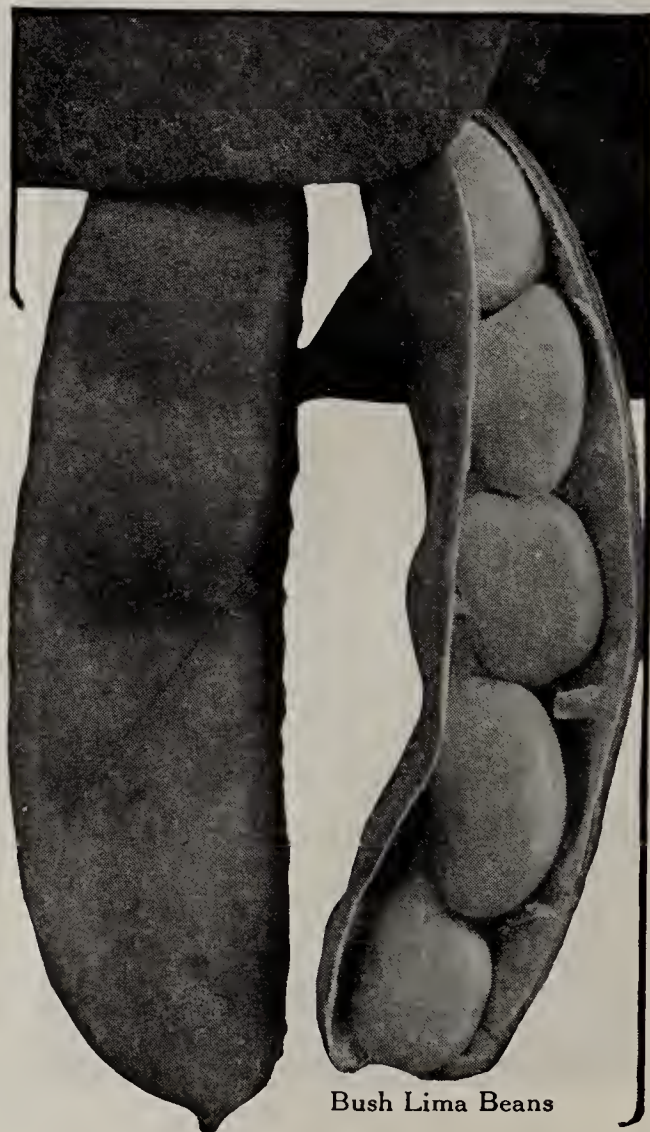
BUSH LIMA BEANS

INOCULATE THIS
SEED WITH
STIMUGERM

See page 34

Fordhook Bush Lima. This Bush Lima is of uniformly erect bush habit, branching freely, but with all the branches held upright. It bears tremendous crops and sets plump, well-filled pods freely, even in a cool, wet season.

Burpee's Bush Lima. Immensely popular. The plants come true from seed, and the dwarf habit has become well fixed. They grow into splendid branching bushes, 18 to 20 inches high and 2 to 3 feet across. The



Bush Lima Beans

BROAD BEAN or ITALIAN FAVA

INOCULATE THIS
SEED WITH
STIMUGERM

Hurm Long-Pod. A very hardy, old-fashioned English Shell Bean.

FIELD BEANS

We carry a selected stock of White Kidney, Red Kidney, and Yellow-eye Field Beans at prevailing market prices.

PRICES OF GREEN-PODDED BUSH BEANS

	1/2 lb.	Lb	2 lbs.	7 1/2 lbs.
Asgrow Valentine	\$0 20	\$0 30	\$0 50	\$1 75
Black Valentine	15	25	45	1 50
Bountiful	15	25	45	1 50
Boston Favorite, or Goddard	15	25	45	1 50
Burpee's Stringless Green-Pod	15	25	45	1 50
French Dwarf Horticultural	20	30	50	1 75
Low's Champion	15	25	45	1 50
Ruby Dwarf Horticultural	15	25	45	1 50
Tendergreen, or New Stringless	20	35	60	2 00

PRICES OF BUSH LIMA BEANS

Fordhook Bush Lima	20	35	60	2 00
Burpee's Bush Lima	20	35	60	2 00
Henderson's Bush Lima	20	35	60	2 00

PRICE OF BROAD BEAN, Hurm Long-Pod	15	25	45	1 50
--	----	----	----	------

INOCULATE THIS SEED WITH STIMUGERM

See page 34

POLE or RUNNING BEANS

Pole Beans are not so hardy as the Bush sorts, and should be planted several weeks later, when danger from frost is over. Plant the seeds in slightly raised hills, 3 to 4 feet apart, four or five seeds to the hill. The Limas are especially tender, and the rule for late outside planting with them is rigid. Painstaking cultivators, usually the most successful, plant them eye downward, setting stout poles for every hill.

A quart of Limas will plant about 100 hills; a quart of the small sorts about 200 hills

- Mammoth Horticultural.** Long, stringless pods of excellent quality when young. The dried Beans are tan, speckled with dull red, and are grown extensively for winter use.
- Old Homestead, or Improved Kentucky Wonder.** Excellent; very productive; pods a silvery green color, large and entirely stringless.
- Worcester Pole.** Beans and pods much larger than the ordinary Horticultural. Used as Shell Beans.
- Kentucky Wonder Wax.** Similar to the Kentucky Wonder, except in the color of pods, which in this one are light waxy yellow. It has a thick, broad pod, very tender, of delicious flavor and stringless.
- Scarlet Runner.** Very ornamental, free climber with bright scarlet flowers.
- White Runner.** Large, white flowers; often planted with the scarlet variety; the effect is very fine.

INOCULATE THIS SEED WITH STIMUGERM

See page 34

POLE LIMA BEANS

- King of the Garden.** An improvement on the Large Lima, with large Beans and pods and more productive habit. When not too closely planted, the vines set Beans early, and bear until frost; two vines should be allowed to a hill.
- Extra-Early Sieva.** A standard variety. The Beans are buttery in flavor.

THE BEST GARDEN BEETS

Deep rich, sandy loam is best for Beets. For early crop sow in hotbeds, and transplant to open ground as soon as it is warm enough. For main crop, sow outside in drills 18 inches apart, and cover lightly. Sow in July for winter crops.

An ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre

- Detroit Dark Red.** Splendid shape and color; very crisp, tender, and sweet.
- Early Wonder.** New, distinct, extra-early, turnip-rooted variety of finest table qualities. Flesh is solid, crisp, and sweet.
- Eclipse.** Globe-shaped; deep red, with sweet, fine-grained flesh; remains tender a long time.
- Crosby's Egyptian.** Smooth, dark red, turnip-shaped Beet which matures early. The flesh is blood-red, tender, and sweet. A widely grown variety.

SWISS CHARD. Grown for its tender, succulent tops; prepared like spinach.



Mammoth Horticultural Pole Beans



Early Wonder Beet

PRICES OF POLE BEANS				
	1/2lb.	Lb.	2 lbs.	7 1/2 lbs.
Improved Kentucky Wonder	\$0 15	\$0 25	\$0 45	\$1 50
Kentucky Wonde Wax	20	35	60	1 75
Worcester Pole.....	20	30	50	1 75
Scarlet Runner.....	20	35	60	2 00
White Runner.....	20	35	60	2 00
Wild Goose	20	35	60	2 00
Mammoth Horticultural	20	35	60	2 00
PRICES OF POLE LIMA BEANS				
King of the Garden.....	20	35	60	2 00
Extra-Early Sieva	20	35	60	2 00
PRICES OF BEETS				
	Pkt.	Oz.	1/4lb.	Lb.
Detroit Dark Red.....	\$0 05	\$0 15	\$0 40	\$1 00
Early Wonder.....	05	15	40	1 00
Eclipse.....	05	15	40	1 00
Crosby's Egyptian.....	05	15	40	1 00
PRICE OF SWISS CHARD.....				
	05	15	40	1 00
PRICES OF BROCCOLI				
	Pkt.	1/2oz.	Oz.	
Calabrese.....	\$0 10	\$0 30	\$0 50	
Rape.....	10	25	40	

TO CONTROL MEXICAN BEAN BEETLE
Dust under side of leaves every 10 days with Calcium arsenate, 1 part (by weight); Dusting sulphur, 1 part; Hydrated lime, 4 parts, using 15 lbs. to the acre, or spray with Calcium arsenate 3/4lb., Hydrated lime 1 1/2 lbs., Water 30 gals. Plow under or burn stalks after beans are harvested

BROCCOLI

Requires the same treatment as cauliflower.
An ounce of seed will produce about 3,000 plants

- Calabrese.** A sprouting variety. Forms a large head which remains green; when head is cut out, small sprouts develop from the upper side of each leaf branch. Sow in the open ground during the early summer; matures in three months.
- Rape.** Grown for the delicious greens it produces.



SELECT CABBAGE

Early varieties are grown from seed sown in hotbeds in February or March, only moderate bottom heat being required. Transplant into other frames, without much, if any, bottom heat, as soon as the plants show the fourth leaf. In April, or as soon as the ground can be easily worked, set out in rows 3 feet apart, and about 1½ feet between the plants. The ground should be thoroughly stirred with cultivator and hoed every week till the plants cover the ground. For a fall crop, sow in the open ground in May, in hills the proper distance apart, using a liberal quantity of manure in the hill, besides that which is plowed in; thin out to one good plant in each hill. In the same way, crops may be grown to lay in for winter use, planting seed as late as July 1. Seeds can also be sown in shallow drills, and, when the plants are large enough, can be transplanted, setting the plants in rows 3 feet apart and 2 feet apart in the row. Succeeds best in deep, rich loam.

Extra-Early Jersey Wakefield. The best early variety of Cabbage.

Heads of medium size, pyramidal, pointed, firm and solid, with few outside leaves; they are very uniform in shape, size, and time of maturing, and are of good quality.

Copenhagen Market. The heads are very solid with a small core and of fine quality; average weight, about ten pounds. It matures as early as the Charleston Wakefield, and will give a much heavier yield than that popular variety; the plant is short-stemmed. Leaves are light green and very tightly folded.

Golden Acre. This is a new, early, round-headed Cabbage which closely resembles Copenhagen Market. As its name implies, it is a money maker. Eight to ten days earlier, smaller and can be planted closer.

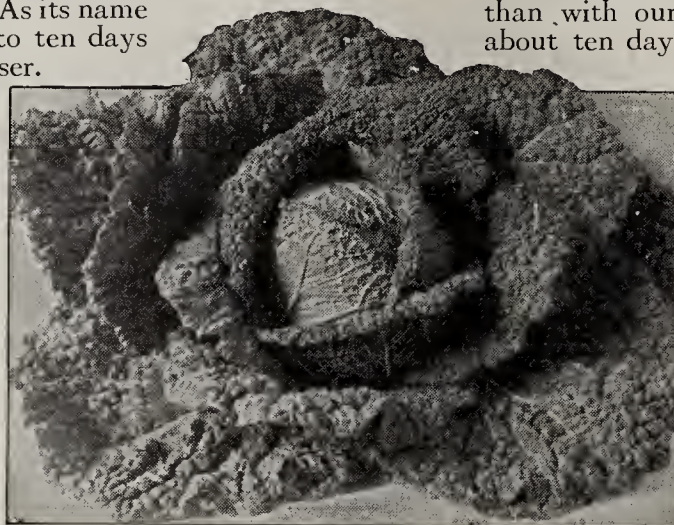
Large Jersey Wakefield, or Charleston. A selection from Early Wakefield, and ten days later, with heads rounded and twice as large.

Penn State Ballhead. A large, somewhat flattened form of the Ballhead, producing probably the largest tonnage per acre of any variety of Cabbage. Developed by Pennsylvania State College.

All Seasons, or Vandergaw. Noted for its superior quality and delicacy of flavor. Almost as early as Henderson's Early Summer, while the heads are larger and quite thick through; a good variety and a splendid winter keeper.



Pe-Tsai, Chinese Cabbage



Improved American Drumhead Savoy Cabbage

Pe-Tsai. This delicious Chinese vegetable belongs to the Cabbage family and closely resembles a well-grown Cos lettuce, but is heavier. We advise that the seed be sown about August 1 (not earlier). Either start in frames and transplant, or simply sow where the plants are to remain in rows, 2½ feet apart, thinning to 1 foot apart in the row. The light green, crumpled-leaved heads are very tender and of a delicious flavor.

BRUSSELS SPROUTS

Species of cabbage, with small, solid, tender heads clustered thickly along the main stem. Properly cooked and seasoned, they are delicious, melting away in the mouth like fine cauliflower. Sow seed in April or May and cultivate like cabbage. Hardy, and the heads are improved by frost.

An ounce of seed will produce 3,000 plants

Dwarf Improved. Plants dwarf, with small, solid, tender heads growing very close together along the stem. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. \$1.

PRICES OF CABBAGE

	Pkt.	½oz.	Oz.	¼lb.
Extra-Early Jersey Wakefield.....	\$0 10	\$0 20	\$0 35	\$0 90
Copenhagen Market.....	10	20	35	90
Golden Acre.....	10	20	35	90
Large Jersey Wakefield, or Charleston.....	10	20	35	90
Penn State Ballhead.....	10	40	75	2 00
All Seasons, or Vandergaw.....	10	20	35	90
Select Large Late Flat Dutch.....	10	20	35	90
Danish Ballhead.....	10	20	35	90
Ulm Savoy.....	10	20	35	90
Improved American Drumhead Savoy.....	10	20	35	90
Red Dutch.....	10	20	35	90
Warren's Stonemason.....	10	20	35	90
Chinese Pe-Tsai.....	10	20	35	90
Chinese Wong Bok.....	10	20	35	90



Large Jersey Wakefield Cabbage

Select Large Late Flat Dutch. An excellent keeping variety; the old standby for main crops. Very large; of fine quality.

Danish Ballhead. Heads are thick, round, of medium size, and as hard as a rock. The stump averages longer than with our native sorts. For late marketing, plant about ten days earlier than the common Drumhead on land liberally manured.

Ulm Savoy. Much earlier than other varieties of this species; medium-sized head; well-curved leaves.

Improved American Drumhead Savoy. The heads of this variety are large, solid, with finely curled, close, wrinkled leaves, of cauliflower flavor. A good-keeping, fine winter Cabbage.

Red Dutch. Widely grown for pickling. A good red Cabbage.

Warren's Stonemason. A greatly improved type of Stonemason, being earlier, rounder, and more solid.

CAULIFLOWER

Sow the seeds for early and late Cauliflower crops as directed for cabbage, but do not set the early plants in the field too soon, for if too much stunted by severe frosts, they begin to form heads before they are strong enough to develop them well. Plants which have not headed before winter sets in may be stored in a cool cellar or coldframe, and will form heads there without any further attention. A deep, loamy soil, with a substratum of moisture during dry weather is most suitable for the Cauliflower. Market-gardeners find this one of their most profitable crops, and amateurs who undertake its culture find it easy; but it is a crop in which carelessness or neglect will interfere with the best results.

An ounce of seed will produce about 3,000 plants

Henderson's Early Snowball. This is the earliest and most popular variety in cultivation, and is largely grown everywhere, both for forcing and early crops outside. The plants are dwarf and sure heading; of fine, delicate flavor.

Danish Giant. Finest Danish-grown seed. Almost as early as the Snowball, with larger heads. Very reliable header. A feature of it, the leaves curling over the head, does away with tying to blanch, and gives it the name of Self-protecting Cauliflower. Excellent for market or family use.

CHICORY

The seed should be sown as early as possible in spring, in good, mellow soil; make the drills at least half an inch deep.

Large-rooted Magdeburg, or Coffee. The roots of this variety form the Chicory of commerce. The leaves, when blanched, make an excellent salad.

Witloof, or French Endive. Esteemed as a salad plant. Spring-grown seeds produce parsnip-like roots by November. Cut the leaves off 1½ inches from neck, trench 1½ inches apart, cover with soil 8 inches over crown; then place a 2- to 3-foot layer of fresh manure which induces new growth of blanched leaves folded like cos lettuce, which are eaten raw as salad.



Early Snowball Cauliflower

PRICES OF CAULIFLOWER				
	Pkt.	¼oz.	½oz.	Oz.
Henderson's Early Snowball.....	\$0 15	\$0 75	\$1 25	\$2 00
Danish Giant.....	15	75	1 25	2 00
PRICES OF CHICORY				
	Pkt.	Oz.	¼lb.	
Large-rooted Magdeburg, or Coffee	\$0 10	\$0 30	\$0 75	
Witloof, or French Endive.....	10	35	1 00	

CARROTS

Carrots succeed best on light, sandy loam, which, preferably, should have been well fertilized the previous year, as fresh manure often causes the roots to grow pronged and misshapen. Sow the seed as early in spring as the ground can be prepared, firming the soil down over it. If sown late, it should be soaked in tepid water, then mixed with plaster or sifted coal-ashes, and sown on freshly prepared soil. Quick germination and rapid growth are necessary.

An ounce of seed will sow 100 feet of drill; 4 pounds will sow an acre

Early Scarlet Horn. Best for forcing and early outdoor crops; can be grown in shallow soils, and requires no thinning if sparingly sown, as the roots are used when young for cooking. They are about 3 inches long, and of very good quality.

Feonia. A novelty from Denmark. A cross between the well-known Nantes and Chantenay varieties.

Chantenay. Handsome roots, broad-shouldered and smooth, and more uniform than the Danvers. Of superior flavor.

Improved Long Orange. Extensively grown; hardly equal to Danvers in quality, but good and heavy in yield.

Danvers Half-Long. Enormously productive; adapted to all soils. The roots are smooth, thick and intermediate between Scarlet Horn and Long Orange in form.

Hutchinson. A heavy yielder and attractive in appearance.

Large White Belgian. For stock-feeding and especially suited to shallow soils. Roots white-fleshed, broad at the shoulder and narrowed abruptly to a point.

CARROTS			
	Pkt.	Oz.	¼lb.
Ea. Scarlet Horn	\$0 05	\$0 15	\$0 40
Chantenay.....	05	15	40
Imp. Long Orange.....	05	15	40
Danvers H.-Long.....	05	15	40
L. W. Belgian.....	05	15	40
Feonia.....	05	15	40
Hutchinson.....	05	15	40



Improved Long Orange Carrots



Golden Plume Celery

CRESS

The leaves form spicy spring salads, and are also used for garnishing. Sow thickly in shallow drills in early spring, and at intervals for continual supply, as it soon runs to seed.

Water Cress. Tender, crisp, and spicy when young. Plant of prostrate habit. A perennial aquatic, which grows well in any stream, forming large beds of leaves.

Extra-Curled or Pepper-Grass. Of pleasant, pungent flavor; leaves can be cut several times; grows well in almost any soil.

PRICES OF CELERY					
	Pkt.	1/4oz.	1/2oz.	Oz.	1/4lb.
Easy Blanching.....	\$0 10	\$0 20	\$0 30	\$0 50	\$1 25
Giant Pascal.....	10	20	30	50	1 25
Dwarf Golden (Self-Blanching).....	10	25	40	75	2 00
Boston Market.....	10	20	30	50	1 25
Wonderful or Golden Plume	10	25	40	75	2 00
PRICE OF CELERIAC					
Prague Giant.....	10		20	35	1 00
PRICE OF CHIVES.....					
	10		30	50	
PRICE OF CARDOON.....					
	10		30	50	1 25
PRICE OF CORN SALAD.....					
	10			20	50
PRICES OF CRESS					
Water Cress.....	10		25	40	1 25
Extra-Curled or Pepper-Grass.....	05			15	40

CELERY SEED

Celery can be grown in any soil, but is finest on deep, mellow bottom land. Seed for early crops should be sown in hotbeds about March 15; if sown too early, the plants are apt to run to seed after being transplanted. The plants may either be thinned to give them room to grow, or transplanted to another bed to grow until it is time to plant them in the open ground. For the main crop, seed should be sown in the open air as soon as the soil and air are warm enough. They should be covered very lightly, or merely pressed into the earth with a board, if the soil is fine and mellow. The seed-bed must be kept free from weeds and well watered in dry weather. When the plants are large enough, transplant them to shallow trenches or furrows from 4 to 6 feet apart, according to the variety grown, setting the plants 6 inches apart in the rows, and pressing the soil firmly around them. They must be well cultivated and kept free from weeds until ready for blanching, which consists in drawing earth up to the stalks at intervals of about two weeks, until all but the tops of the plants are covered. During this process no earth should be allowed to fall into the center of the plant, as this would cause them to rust or decay.

An ounce of seed will produce about 2,000 plants

Wonderful or Golden Plume Celery. A new early Celery of great merit. Large, robust stalks, easily blanched, blight-proof, and of that crispness and nutty flavor so much desired. We consider this and our strain of Originator's Golden Self-blanching, the two finest Golden Celeries in cultivation.

Easy Blanching. This will mature just after the Golden Self-blanching has been harvested. The general color is pale green, with a slight yellowish tinge, which gives it a blanched appearance. The inner stalk, at a very early stage of growth, blanches to a rich golden yellow, so that the usual banking work is eliminated. If stored properly, this variety will keep in good condition all winter without difficulty.

Giant Pascal. The stalks are remarkably broad and thick, and about 2 feet high, yet blanch quickly with but slight banking. Their rich, nutty flavor is entirely free from any bitter taste, and they are tender, crisp, and stringless. A valuable sort for both early and late use.

Dwarf Golden. Self-blanching. Has stalks of beautiful golden yellow, equal in quality to those of any variety grown. Plants semi-dwarf and vigorous, with large, ribbed and rounded stalks, which are quite crisp and tender. Distinguished, when quite small, by the distinct yellowish green of its leaves. One of the best and handsomest of Celeries in our collection.

Boston Market. The dwarf, branching variety grown so extensively about Boston. It is unequalled by any other sort, being solid, crisp, and of excellent flavor. Its compact, dwarf habit allows closer planting and requires less earthing up than taller sorts. Especially desirable as a market variety but also good for the home-garden.

CELERY TAPE. For bunching Celery and other vegetables.

Price for 1,000-yard spool, \$1.50.

CELERIAC or TURNIP-ROOTED CELERY

The seed should be sown in early spring, in light, rich soil; the seedlings transplanted in May, and watered freely in dry weather. They will be ready for cooking in October and may be preserved for use during winter in dry sand. Celeriac is said to be as fine a nerve tonic as celery, and can be grown in many sections where celery culture is practically impossible. The roots have almost the same flavor as the crispest white celery stalks, and do not require half so much care in banking, while they keep perfectly with no more care than a crop of turnips—much longer than celery stalks can be kept in good condition.

An ounce of seed will produce about 5,000 plants

Prague Giant. The roots of this variety are very large and smooth, with no side roots, and sell better in market than those of almost any other sort offered. When young, they are quite tender and marrow-like, having a very fine flavor and cooking quickly.



CORN, Sweet or Sugar

It is our opinion, after several years of testing side by side, that eastern-grown Sweet Corn is far superior to western in sweetness, and also retains this necessary quality for a much longer time. This is also the opinion of many of our local market-gardeners. Our entire stock for this season we guarantee to be New England-grown. This delicious vegetable may be enjoyed from early summer until frost if proper varieties are selected and planted for succession every two weeks from May until the middle of July. If the seed is planted too early, before the ground becomes warm, it is liable to decay. Plant in hills 3 to 4 feet apart each way, five or six kernels to a hill; or in rows 4 to 5 feet apart, scattering the seed thinly in the rows. The taller-growing the variety, the richer should be the soil and the wider the space allowed for development.

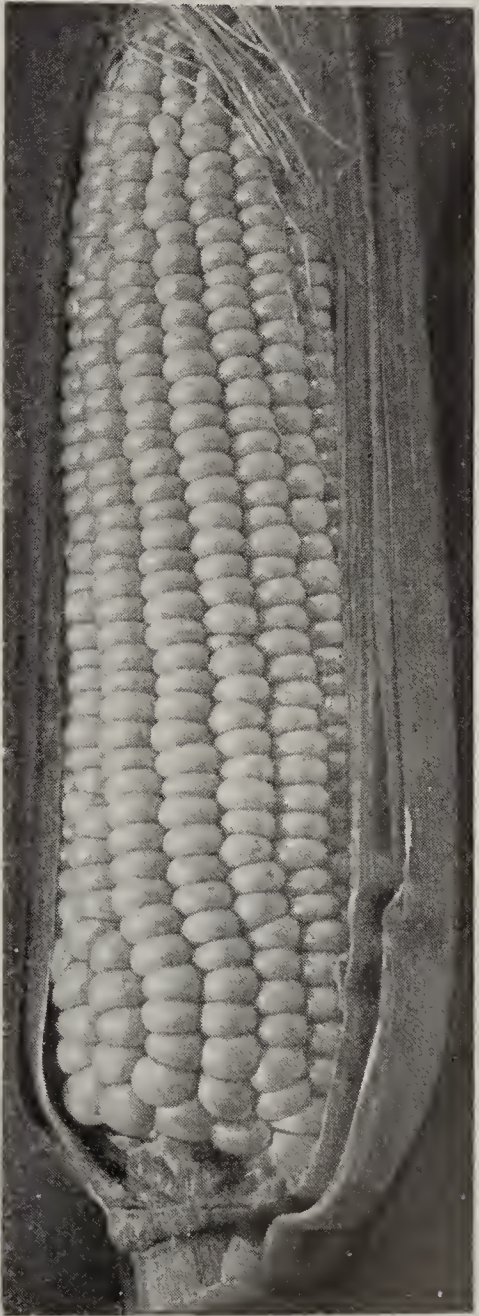
On Corn, if to be sent by mail, add postage at the rate given in table on page 1

EARLY VARIETIES

- Gold Coin.** A new extra-early variety of excellent quality. Large, golden yellow ears with sweet, meaty kernels.
- Spanish Gold.** A new early variety. Medium-sized ears well filled with straight rows of bright yellow kernels.
- Golden Early Market.** A new variety of superior merit for home-garden and market. The young ears are deliciously tender and sweet, and its earliness makes it valuable for summer market and for short growing seasons.
- Golden Sunshine.** Ten days earlier than Golden Bantam, but has all its good qualities.
- Golden Bantam.** Stalks about 4 feet high; ears about 6 inches long; grains rich creamy color, and is actually the finest flavored of all Sweet Corn; very early.
- Whipple's Yellow.** Stalks short; ears set quite low, of fair size, and well filled with large grains of fine quality and flavor.
- Early Mayflower.** One of the earliest; uniform as to type and productiveness; ears large, evenly and compactly filled with tender, white kernels of very fine quality for a first-early.

SECOND EARLY AND GENERAL CROP

- Golden Giant.** Ears about double the size of Golden Bantam; about ten days later; quality fine, without the mealy taste of most yellow Corns.
- Early Crosby.** Ears good-sized, 12-rowed, filled with thick, sweet grains; but little later than Perry's Hybrid. Productive, vigorous, and hardy.
- Squantum Sweet.** Best for table use. Our stock is pure, being grown by us from selected ears.
- Country Gentleman.** Ears of good size and well filled to the tips with deep, tender, white grains of delicious quality; cobs small; stalks productive, averaging three ears each.
- Stowell's Evergreen.** Ears large, with deep, tender, sugary grains and remain fit for use longer after maturity than any other Sweet Corn. Productive and hardy; adaptable as an early or a late sort; fine for private garden, market, and canning.
- Bearsfoot.** A late variety of extraordinary sweetness; large ears; very desirable for market.

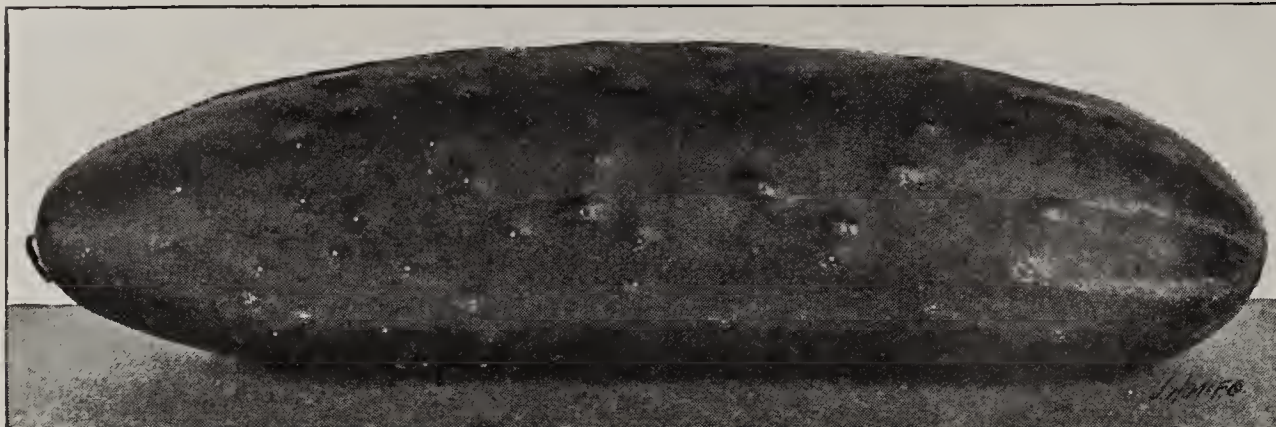


Stowell's Evergreen Corn



Country Gentleman Corn

EARLY SWEET CORN				SECOND EARLY CORN			
1/2lb.	Lb.	2 lbs.	6 lbs.	1/2lb.	Lb.	2 lbs.	6 lbs.
Gold Coin.....	\$0 15	\$0 25	\$0 45 \$1 25	Golden Giant.....	\$0 15	\$0 25	\$0 45 \$1 25
Spanish Gold	15	25	45 1 25	Early Crosby	15	25	45 1 25
Golden Early Market....	15	25	45 1 25	Squantum Sweet.....	15	25	45 1 25
Golden Sunshine	15	25	45 1 25	Country Gentleman....	15	25	45 1 25
Golden Bantam	15	25	45 1 25	Stowell's Evergreen....	15	25	45 1 25
Bantam Evergreen	15	25	45 1 25	Bearsfoot.....	15	25	45 1 25
Early Mayflower	15	25	45 1 25	Black Mexican.....	15	25	45 1 25
Whipple's Yellow.....	15	25	45 1 25				



Clark's Special Long Green Cucumber. Finest Market-Garden Strain Obtainable

two weeks until midsummer. Extra-early crops may be grown by planting the seed in hotbeds in April, upon pieces of sod turned upside down, and removing these to hills in the open ground as soon as the weather is warm enough. For pickles, sow the seed from the middle of June until the middle of July. The vines bear longer if the fruits are gathered as soon as they are large enough; their strength is soon exhausted by ripening fruit.

An ounce of seed will plant 50 hills; 2 pounds will plant an acre

Clark's Special Long Green. Hardy, disease-resistant, medium-late variety of remarkable quality. It is well adapted to general use. When young makes excellent pickles.

Barrett's Hothouse. The finest strain of Cucumber for forcing. **Boston Pickling.** Very popular for pickles; fruit smooth and symmetrical, but slightly pointed at the ends; bright green.

Fordhook White Spine. Early, productive, and suitable either for forcing or outdoor crops. Fruit of medium size, good shape, light green, with a few white spines on the surface.

Improved Long Green. The leading long-growing sort, and excellent for pickles. The fruits are dark green, long, well-shaped, firm, and crisp.

Everbearing. The vines produce fruit until frost; early and productive. Fruits are small, well shaped, and of good quality for pickling.

Early Cluster. Produced in clusters, and abundantly; short, dark green, firm, crisp, and tender.

Davis Perfect. After several years' trial, we give the introducer credit for all he claims for it.

Japanese Climbing. Vigorous, tall-climbing, and clings tightly to trellises. Fruits almost straight, large, and from 12 to 16 inches long; skin dark green; flesh thick and delicately flavored.

THE BEST EGGPLANT

Sow the seed in hotbed early in March, transplant to small pots, and plunge them in the same beds; this is to make them

strong and stocky. They should not be planted out in rows

until May or June, when the weather becomes warm and settled, as cool nights and wet weather will check their growth. Set the plants in rows 3 feet apart each way, and give them a thorough cultivation, drawing the earth up to the stems when they are about a foot high; it is well to keep some plants in the hotbed for replanting. Repeated sowings are sometimes necessary, as the seed does not germinate freely without strong and uniform heat. In cutting the fruit, be careful not to injure the plants.

An ounce of seed will produce 1,000 plants

Black Beauty. The leading market variety, strong and productive in habit. The fruits are deep purple, large and smooth, entirely free from thorns, and the flesh is white, tender, and delicately flavored. The plant is robust and a good yielder on all rich soils.

Improved Long Purple. An early, hardy, and prolific variety with fruits of excellent quality, 6 to 10 inches in length and 2 to 3 inches in diameter. Rich dark purple.

New York Large Improved Purple. Large, deep purple, egg-shaped fruits of fine quality. Very prolific. A favorite both for the market-garden and for family use.

DANDELION

Furnishes an early and most healthy crop of spring greens. Sow in rich soil, in rows about a foot apart; cover them only $\frac{1}{4}$ inch deep and firm the soil down. Thin to 10 inches apart in the rows, that the roots may grow large and solid. The planting-time in this section of the country is about August 1.

An ounce of seed will sow 100 feet of drill; a pound will sow an acre

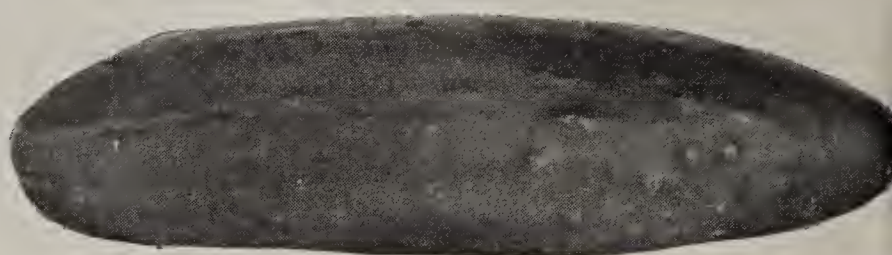
Improved American Thick-leaved. The best variety.

Italian Dandelion (*Ciccoria catalogna*).

CUCUMBER

All the Best Sorts for Salads and Pickling

For general crop, the seed cannot be planted in the open ground before the weather has become warm and settled and the ground mellow and light. Plant the seed in well-enriched hills, about 4 feet apart each way, and as soon as all danger from insects is over, thin the plants to leave four of the strongest in each hill. For succession, sow at intervals of every



Improved Long Green Cucumber

PRICES OF CUCUMBERS

	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
Barrett's Hothouse.....	\$0 15	\$0 60	\$2 00	\$7 00
Boston Pickling.....	10	15	40	1 25
Fordhook White Spine.....	10	15	40	1 25
Improved Long Green.....	10	15	40	1 25
Everbearing.....	10	15	40	1 25
Early Cluster.....	10	15	40	1 25
Davis Perfect.....	10	15	40	1 25
Japanese Climbing.....	10	15	40	1 25
Longfellow.....	10	15	40	1 25
Woodruff's Hybrid.....	10	15	40	1 25
Clark's Special Long Green.....	10	20	50	1 50

PRICES OF DANDELION

	Pkt.	$\frac{1}{2}$ oz.	Oz.	$\frac{1}{4}$ lb.
Improved American Thick-leaved....	\$0 10	\$0 35	\$0 60	\$2 00
Italian.....	10	25	40	1 25

PRICES OF EGGPLANT

	Pkt.	Oz.	$\frac{1}{4}$ lb.
Black Beauty.....	10	30	50
Improved Long Purple.....	10	30	50
New York Large Improved Purple....	10	30	50



Black Beauty Eggplant



ENDIVE (The Winter Salad)

This is an important fall and winter salad. For early crop, the seed should be sown in April, in drills 15 inches apart, and the seedlings thinned to stand a foot apart in the rows. Sowings for the main crop can be made in June and July, as the vegetable is used principally in fall and winter. The inner leaves may be blanched to a beautiful yellowish white in from three to five weeks by tying the tips of the outer ones together, or by laying boards over the plants.

An ounce of seed will sow 100 feet of drill

Green Curled. The one most generally cultivated. Dark green leaves, beautifully curled, and, when blanched, very crisp and tender; they are ready for use a little earlier than the other sorts.

Broad-leaved Batavian. The broad, thick leaves make excellent salads when blanched. The plant is very hardy, and yields heavier crops than other sorts, but does not blanch so easily.

All Heart. An extensively grown variety with broad, thick, slightly wrinkled green leaves. Fine for salads when blanched. Can be used like spinach.

KALE, or BORECOLE

Under this name are classed several species of the cabbage family which do

not form heads. Some of them have very tender leaves of delicate flavor, and all are quite hardy, being improved rather than injured by frost. Sow the seed in beds in April or May and transplant and cultivate the seedlings like cabbage. They grow in almost any soil.

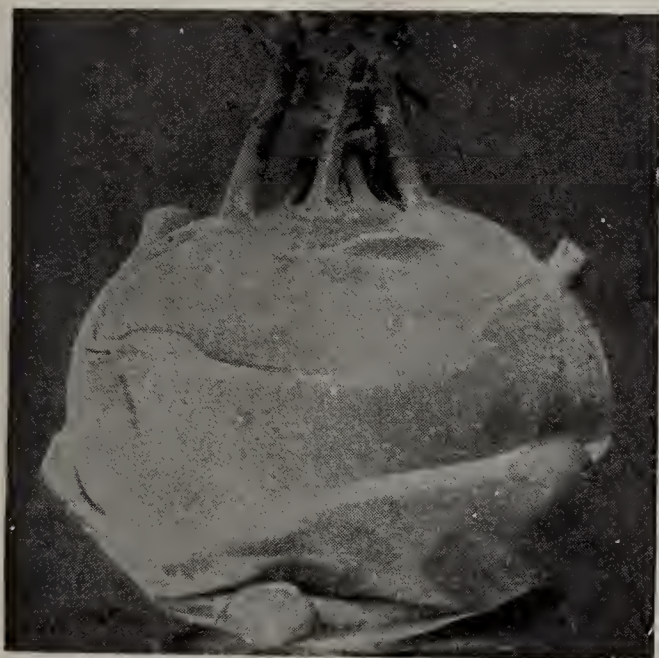
An ounce of seed will sow about 200 feet of drill

Tall Scotch. A very hardy, upright variety 3 feet tall. Tender, bright green, finely curled leaves of excellent flavor.

Dwarf Curled Green Scotch. A dwarf, spreading variety, seldom exceeding a foot in height, but rounding out to a diameter of 2 feet under good cultivation. The leaves are bright green, tender, and elegantly curled. The variety is very hardy and one of the best grown. Two weeks later than the preceding sort, but stands longer before going to seed.



Broad-leaved Batavian Endive



Early White Vienna Kohlrabi

KOHLRABI

This Turnip-rooted Cabbage is very palatable when prepared for the table like turnips, and when fed to cows gives no unpleasant flavor to the milk. If the weather is favorable, the seed should be sown in April, in rows 1½ feet apart, and the seedlings thinned to stand a foot apart for large varieties, and 6 to 8 inches apart for other sorts; they are somewhat difficult to transplant. The stems swell into large bulbs just above the ground, and these are fit for use when 3 to 4 inches in diameter. For late crops, sow in June or July.

An ounce of seed will produce about 3,000 plants

Early White Vienna. The best and earliest market sort. The plants grow rapidly, have small foliage, and mature their fine, round, white bulbs quite early; flesh fine-grained, white, tender, and good; tops quite short.

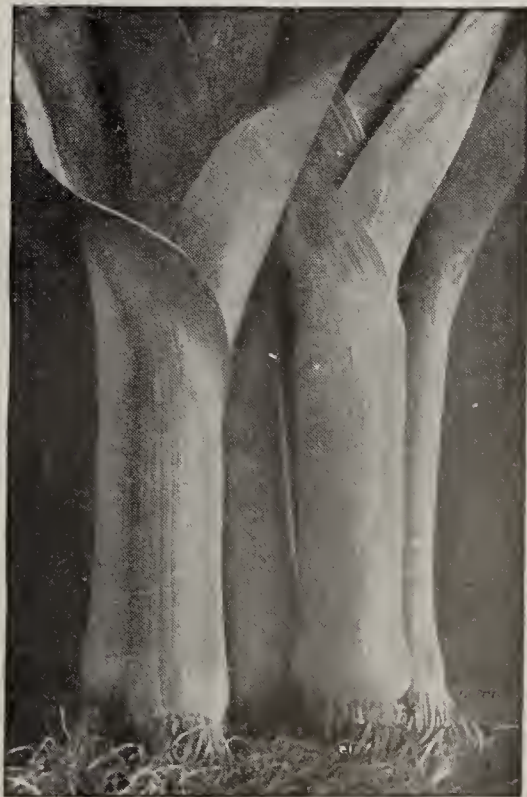
Early Purple Vienna. This variety differs from the above mainly in the color of its roots, which are bluish purple; in quality they are superior to those of many other sorts.

LEEK

The Leek is generally considered superior to the onion in flavor, and is much used for seasoning soups and boiling with meats. The plants are easily cultivated and very hardy, enduring the severest winter weather without protection. The seed should be sown in hotbeds in early spring, and the seedlings transplanted later to the open ground, 8 inches apart, in rows from 12 to 15 inches apart. For a winter supply of this, sow seed in the open ground in early spring and thin the seedlings until they have room for development, or transplant them as above; the former method gives larger stalks some time earlier than when the roots are transplanted. They should be stored like celery for winter.

An ounce of seed will sow about 100 feet of drill

Giant Carentan. The variety most extensively cultivated. The stalks are large and the leaves grow from their sides, as in the flag.



Giant Carentan Leeks

PRICES OF KALE Pkt.			
	1/2oz.	Oz.	1/4lb.
Tall Scotch . . .	\$0 10	\$0 20	\$0 50
Dwf. Curled Green			
Scotch	10	20	50
PRICES OF ENDIVE			
Green Curled	05 \$0 15	25	60
Broad Batavian . .	05	15	25 60
All Heart	05	15	25 60

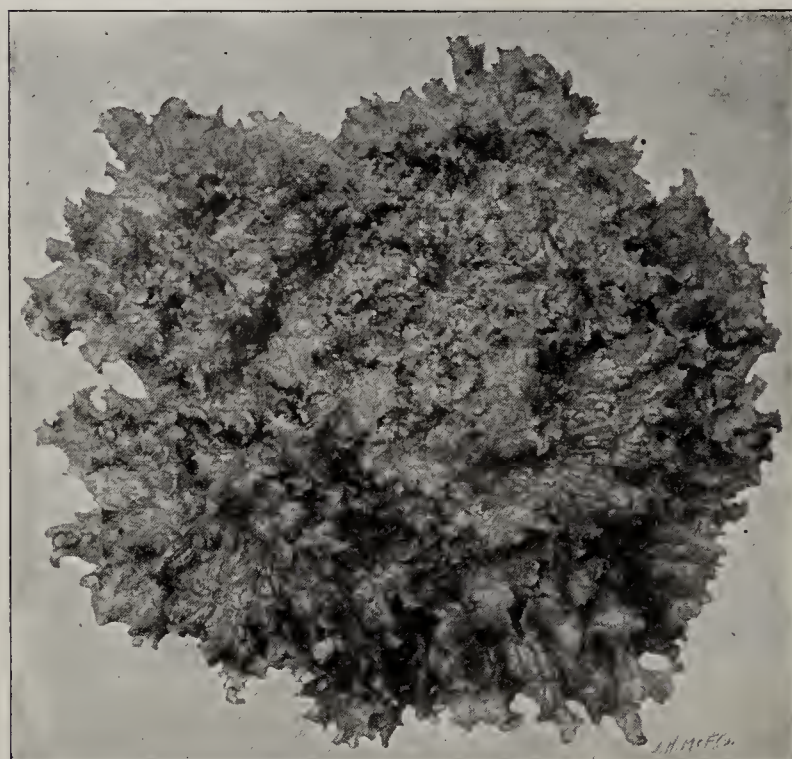
PRICES OF KOHLRABI			
	Pkt.	1/2oz.	Oz.
Early White			
Vienna	\$0 10	\$0 20	\$0 35 \$0 75
Ea. Pur. Vienna . .	10	20	35 75
PRICE OF LEEK			
Giant Carentan . .	10	20	30 90

LETTUCE

Lettuce is a plant of most simple culture when grown in the open air. It requires rich soil, plenty of well-rotted manure, and abundant moisture. With these conditions, its growth is vigorous and rapid; and to be crisp and tender it should be grown quickly. Of all the salad plants, Lettuce easily takes the lead, and no garden is worthy the name without its Lettuce-beds. It has few, if any, insect enemies and flourishes throughout the spring and summer months. Drought and hot weather are its worst enemies, as during such periods it inclines to run up to seed. Seed may be sown in a frame in February or March, not much bottom heat being required. The plants may be set out as early as the ground can be worked, as light frosts will not injure them. Set in rows about 1½ feet apart, leaving 8 to 10 inches space between the plants. For successive crops, sow every two weeks up to July.

One ounce of seed will produce 3,000 plants

White Boston. Similar to Big Boston but with leaves slightly lighter green and free from a brown tint; heart but-tery yellow; excellent quality. Desirable for nearby markets.



Grand Rapids Lettuce



Wonderful, or New York Lettuce

Tomhannock (Crisp-as-Ice). Leaves almost white, crisp, and tender; edges of the outer leaves reddish bronze; very handsome.

Salamander. A valuable outdoor Lettuce. Of large size, solid, good color; stands well during the hot summer months.

May King. A recent variety of great value on account of its extreme earliness, large size, and tenderness. Will head with heat as well as outdoors, though it attains a better size with open-air culture. Has a globular-shaped head of enormous size, hard and well closed. A decided acquisition for the market and home-gardener, and bids fair to be one of our most popular sorts.

Black-seeded Tennisball. This variety is the most popular for outdoor culture. It forms a handsome, compact head, with very few outside leaves, and is crisp and tender.

Boston Market (White-seeded Tennisball). Grown extensively under glass, by market-gardeners for winter use; very compact head.

Big Boston. Similar to the Boston Market, with heads twice as large and a week later in maturing. The solid, large heads make them of great value for general crop.

Grand Rapids. One of the best loose-leaved varieties. Excellent for greenhouse forcing and good for outdoor culture. Large, light green, curled leaves; crisp and tender.

Hanson. Vigorous; forms immense heads; leaves green, light yellow within; sweet, crisp. One of the best for market- or home-gardens and is growing in popularity year after year.

Iceberg. Large, solid heads, very handsome, tender and crisp.

Curled Silesia. Very early and tender.

White Paris Cos. A sort with long, narrow, upright leaves; does not head, but when tied up blanches very nicely; bears close planting. A splendid sort for summer use.

Wonderful (New York). A variety considerably larger than Iceberg and about ten days later. The outer leaves are a distinct dark green compared to Iceberg.

FINOCCHIO or FLORENCE FENNEL

A delicious Italian vegetable which tastes quite like celery, but is a little sweeter and more delicate in flavor. The enlarged leaf-bases are usually boiled in preparation for the table.



Fennel

MUSTARD

White London. A variety with small, smooth, dark green leaves, which are greatly relished as salads, or when cooked like spinach. The seed should be sown in shallow drills as early as the ground can be prepared in spring.

LETTUCE PRICES

	Pkt.	½oz.	Oz.	¼lb.	Lb.		Pkt.	½oz.	Oz.	¼lb.	Lb.
Grand Rapids.....	5c	15c	25c	60c	\$1.50	Big Boston.....	5c	15c	25c	60c	\$1.50
Tomhannock.....	5c	15c	25c	60c	1.50	Iceberg.....	5c	15c	25c	75c	2.50
Salamander.....	5c	15c	25c	60c	1.50	Hanson.....	5c	15c	25c	60c	1.50
May King.....	5c	15c	25c	60c	1.50	Curled Silesia.....	5c	15c	25c	60c	1.50
Bl'k-seeded Tennisball.....	5c	15c	25c	60c	1.50	White Paris Cos.....	5c	15c	25c	60c	1.50
Boston Market.....	5c	15c	25c	60c	1.50	Wonderful.....	5c	15c	25c	75c	2.50
White Boston.....	10c	15c	25c	60c	1.50	Chicken.....	5c	15c	25c	60c	1.50
Bl'k-seeded Simpson.....	5c	15c	25c	60c	1.50	MUSTARD, White London.....	10c	25c			.75
PRICE OF FINOCCHIO, or Florence Fennel.....							10c	20c	35c	75c	2.00

MUSKMELONS

Muskmelon seed should not be planted outdoors until all danger of frost is over and the ground has become warm and dry. The hills should be about 6 feet apart and carefully prepared. Rich earth is far better for the young plants than manure, but if the latter must be used, see that it is well rotted. Plant from six to twelve seeds in a hill, and when the young seedlings are strong enough to resist the attacks of insects, thin them, leaving three of the strongest in each hill. The vines should have clean cultivation until they cover the ground, and if they grow too rank, the tips of the shoots should be pinched off, causing them to set more and larger fruits.

An ounce of seed will plant about 80 hills

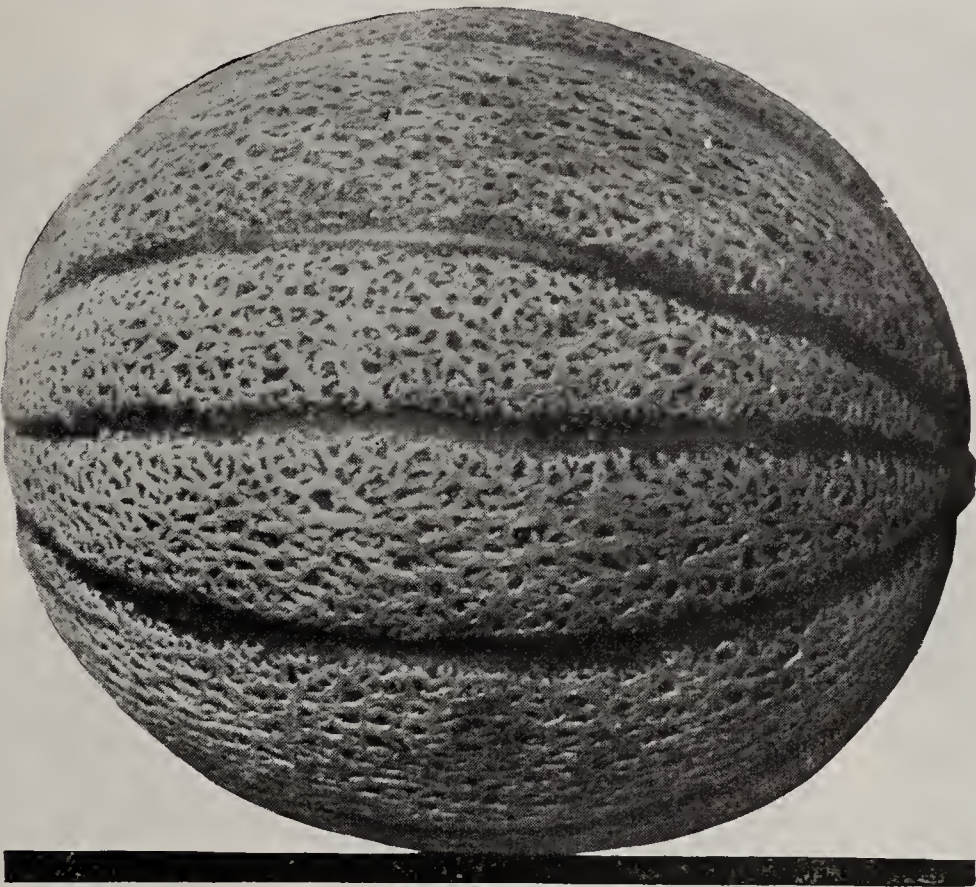
- Lake Champlain.** An early-maturing variety having few seeds and a very small seed cavity. Considered by market-gardeners as one of the most desirable kinds for critical markets. Nicely netted, medium-sized fruit with flesh of a beautiful golden yellow.
- Emerald Gem.** Early, with small, smooth-ribbed, dark green fruits; flesh thick and salmon-colored, granular, sweet and rich; very delicious and satisfying to the taste; the vines bear heavily.
- Miller's Cream or Osage.** Fine, attractive fruits which sell quickly in market, and therefore a favorite among the truckers. The fruits are large and round, with light green, netted skin; thick, sweet, salmon-colored flesh.
- Honey Dew.** The Honey Dew averages 9 inches long and 7 inches wide. Greenish white until dead ripe, then pale yellow; of excellent flavor. Our season is hardly long enough to mature it unless started under glass.
- Bender's Surprise.** Large, oval-shaped, coarsely netted fruit. Flesh of a deep orange color and very thick. A good keeper and shipper.
- Sugar Rock.** One of the most prolific varieties grown. Oval, heavily ribbed fruits of medium size. Firm and very sweet.

OKRA

The tender, young pods are used for seasoning soups and stews. Sow the seed thickly in rich soil, about the middle of May, in drills 3 feet apart, and cover the seeds an inch deep. Thin the young plants to stand 10 inches apart, hoe them often and earth up the stems a little in cultivation, for support.

An ounce of seed will plant 100 hills

- Improved Dwarf.** Grows about 14 inches high; produces twice as many pods as taller sorts. Pods smooth, tender, well-flavored.
- White Velvet.** Pods pure white, round and smooth, with no square edges or disagreeable prickles; also larger than in most sorts.



Bender's Surprise Muskmelon

PRICES OF MUSKMELONS				
	Pkt.	Oz.	1/4lb.	Lb.
Lake Champlain.....	\$0 05	\$0 15	\$0 40	\$1 25
Emerald Gem.....	05	15	40	1 25
Miller's Cream or Osage.....	05	15	40	1 25
Honey Dew.....	10	20	50	1 50
Bender's Surprise.....	05	15	40	1 25
Rocky Ford.....	05	15	40	1 25
Sugar Rock.....	05	15	40	1 25

PRICES OF OKRA				
Improved Dwarf.....	10	15	25	75
White Velvet.....	10	15	25	75

PRICE OF PURE-SPORE CULTURE MUSHROOM SPAWN	
Carton.....	\$1 00



Mushroom Spawn

PURE-SPORE CULTURE
MUSHROOM SPAWN

The growing of Mushrooms is rapidly increasing, and the demand for them has reached immense proportions. A fine crop of Mushrooms can be secured with very little labor or expense, provided a suitable location can be obtained. Cellars, greenhouses, and sheds can be used for their culture. We are now offering our customer Spawn that is made in quart milk jars under absolutely sterile conditions. The bottle and materials are sterilized under steam pressure of twelve pounds, so that every mould, weed seed or insect is destroyed, and each bottle contains nothing but the pure Spawn. Every particle is full run, covered with Spawn grown direct from the spores. One carton of the Spawn equals five bricks of ordinary Spawn and is sufficient to spawn about 40 square feet. The sterile Spawn is dried thoroughly and each piece wrapped in tissue paper, which contains full instructions, not only as to how the Spawn should be used, but full particulars about growing Mushrooms. Anyone can order Spawn and with it get the necessary knowledge to make growing entirely successful.



Cole's Early Watermelon

PARSLEY

The leaves of most sorts of Parsley are beautifully curled, and useful for garnishing as well as flavoring.

An ounce of seed will sow about 150 feet of drill

Champion Moss Curled. Leaves bright green, finely cut, and beautifully curled.

Plain Leaf. Leaves are longer and darker green than the curled varieties; very hardy.

ONION SEED

Good Onion Seed is the
Foundation for a Good Crop

The Onion has been cultivated as an article of food from the earliest times, and is now perhaps more universally grown than any other vegetable. A good crop is impossible unless the soil is very rich and kept clean. Use well-rotted manure freely, and get the crop in as soon as possible in the spring, no matter if the weather is cold and unpleasant. Sow in drills 1 foot apart and cover about one-third of an inch, treading or rolling after sowing, so that the hot, dry atmosphere may not dry up and destroy the sprouting seed. When 3 inches high, thin to 2 inches apart. Stir the ground freely without disturbing the young plants and keep free from weeds.

One ounce to 100 feet of drill; 4 to 5 pounds per acre

Yellow Globe Danvers. Buxton type, selected, home-grown stock. Early; globe-shaped, with very small neck; large; good keeper. The best for general crop.

Red Wethersfield. One of the most productive and long-keeping. Bulbs deep purplish red, large, flat, strong-flavored, and grow to a large size the first year from seed.

Southport Red Globe. This is a favorite with all who grow Red Onions. It grows to fair size, with very small neck, and bright red in color. We offer a fine stock.

Southport White Globe. A large, showy, globular white Onion, which sells quickly in market. The bulbs grow quite rapidly and, if the seed is sown early, good-sized roots, suitable for pulling and marketing in a green state, are soon formed. They are mild-flavored, keep well, and the yield is good.

White Portugal or Silverskin. Largely grown for white Onion sets. Bulbs large, fine in appearance, with silvery white skin and sweet, tender white flesh. They do not keep well, but are mild-flavored and excellent for family use and for pickling.

Spanish King or Prizetaker. Bulbs very large, round, and handsome; rich yellow skin; mild, sweet, pure white flesh; quite free from stiff necks. Bottom well and yield enormously. A very desirable sort.

ONION SETS

These are small Onions grown the previous year, ripened off, and taken up when mere bulbets. They produce a very early and profitable crop, and grow in any good soil. Set them in rows 1 foot apart and 3 inches apart in the rows.

Red, White, Yellow, and Ebenezer Sets, for spring planting.

Top Onion Sets for fall. Market price; price variable.

WATERMELONS

An effort should be made to secure good, strong vines early in the season, and this can be done by taking care that the hills are large, mellow, and well-drained, with the manure placed so that they will not dry out quickly under hot suns. All possible protection from insects should be given the young plants, and their growth may be hastened still further by frequent applications of liquid manure. Plant the seeds thickly and thin the plants to four of the strongest in each hill.

An ounce of seed will plant about 60 hills

Cole's Early. A fine early Watermelon; can be grown over a large latitude; flesh bright red; fruit nearly round; rind thin.

Sweetheart. Large and nearly globular; skin bright, mottled green; flesh bright red, firm and heavy, crisp, melting, and exceedingly sweet. A good shipper and keeper.

Halbert Honey. Long, blunt-ended, very large fruits with thin, dark green rind. Very prolific.

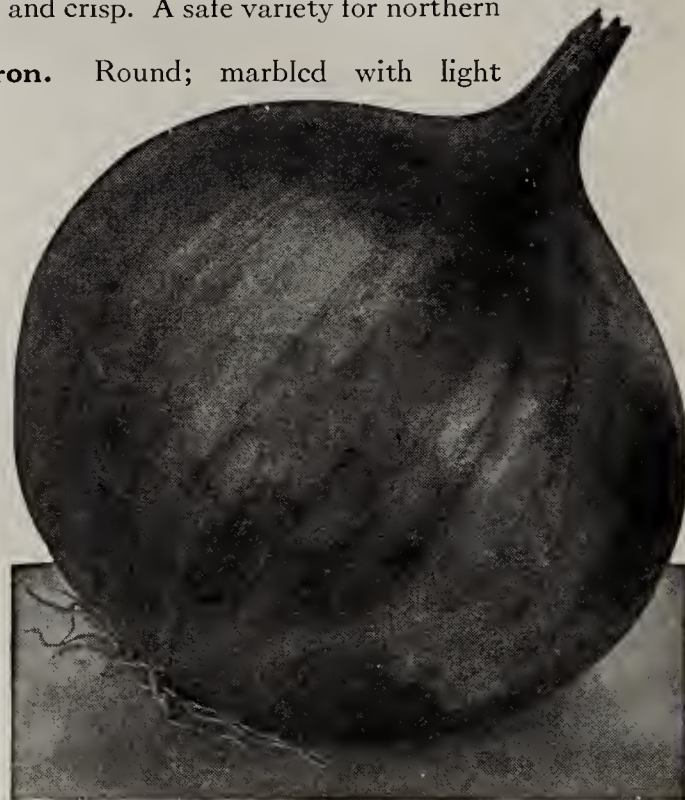
Ice Cream. An early-season, delicious home market melon. It has too thin a rind for shipping. Few, if any, melons surpass this for quality and productiveness. Flesh bright scarlet, solid to center, melting and delicious.

Kleckley Sweets. This sweetest of all melons has now become exceedingly popular. Luscious flavor; fine-grained, tender meat; large.

Cuban Queen. Round; large; flesh bright red, very crisp, delicate, and sweet. An early and reliable sort.

Mountain Sweet. Form rather long; color dark green; seeds dark; very solid, sweet, and crisp. A safe variety for northern growing.

Red-seeded Citron. Round; marbled with light green; the flesh is white and solid; seeds red.



Prizetaker Onion

PRICES OF WATERMELONS

	Pkt.	Oz.	1/4lb.	Lb.
Cole's Early.....	\$0 05	\$0 15	\$0 40	\$1 00
Sweetheart.....	05	15	40	1 00
Halbert Honey.....	05	15	40	1 00
Ice Cream.....	05	15	40	1 00
Kleckley Sweets.....	05	15	40	1 00
Cuban Queen.....	05	15	40	1 00
Mountain Sweet.....	05	15	40	1 00
Red-seeded Citron.....	05	15	40	1 00
Stone Mountain.....	05	15	40	1 00

PRICES OF ONION SEED

Yel. Globe Danvers....	10	20	60	2 00
Red Wethersfield.....	10	20	60	2 00
Southport Red Globe..	10	20	60	2 00
Southport White Globe	10	20	60	2 00
White Portugal.....	10	20	60	2 00
Spanish King.....	10	20	60	2 00

PRICES OF PARSLEY

Champion Moss Curled	05	15	40	1 25
Plain Leaf.....	05	15	40	1 25

GARDEN PEAS

All smooth-seeded Peas may be planted as early in spring as the soil can be prepared for them. They are very hardy and will endure a low temperature, both before and after sprouting. By sowing for the first crop as early as is practicable, and for succession at intervals of about two weeks until the first of June, a good supply of this delicious vegetable may be enjoyed through the greater part of the summer. Late sowings, however, do not yield so well as early ones, because the hot and dry weather is unfavorable to the development of the plants. The seeds should be sown in drills about 3 inches deep and from 3 to 4 feet apart, according to the variety, taller sorts requiring more room than the dwarf ones. Dwarf Peas require a very rich soil, while tall ones thrive best in rather thin ground which does not stimulate too luxuriant growth in the vines, to the detriment of the pods. The latter are frequently sown in double rows, with brush or support of some kind between them. Wrinkled Peas are not so hardy as the smooth sorts, and should not be sown so early, but are superior to them.

One quart of seed will plant about 125 feet of drill
If to be sent by mail add postage at the rate given in table on page 1

EXTRA-EARLY PEAS
Medium and Dwarf Sorts

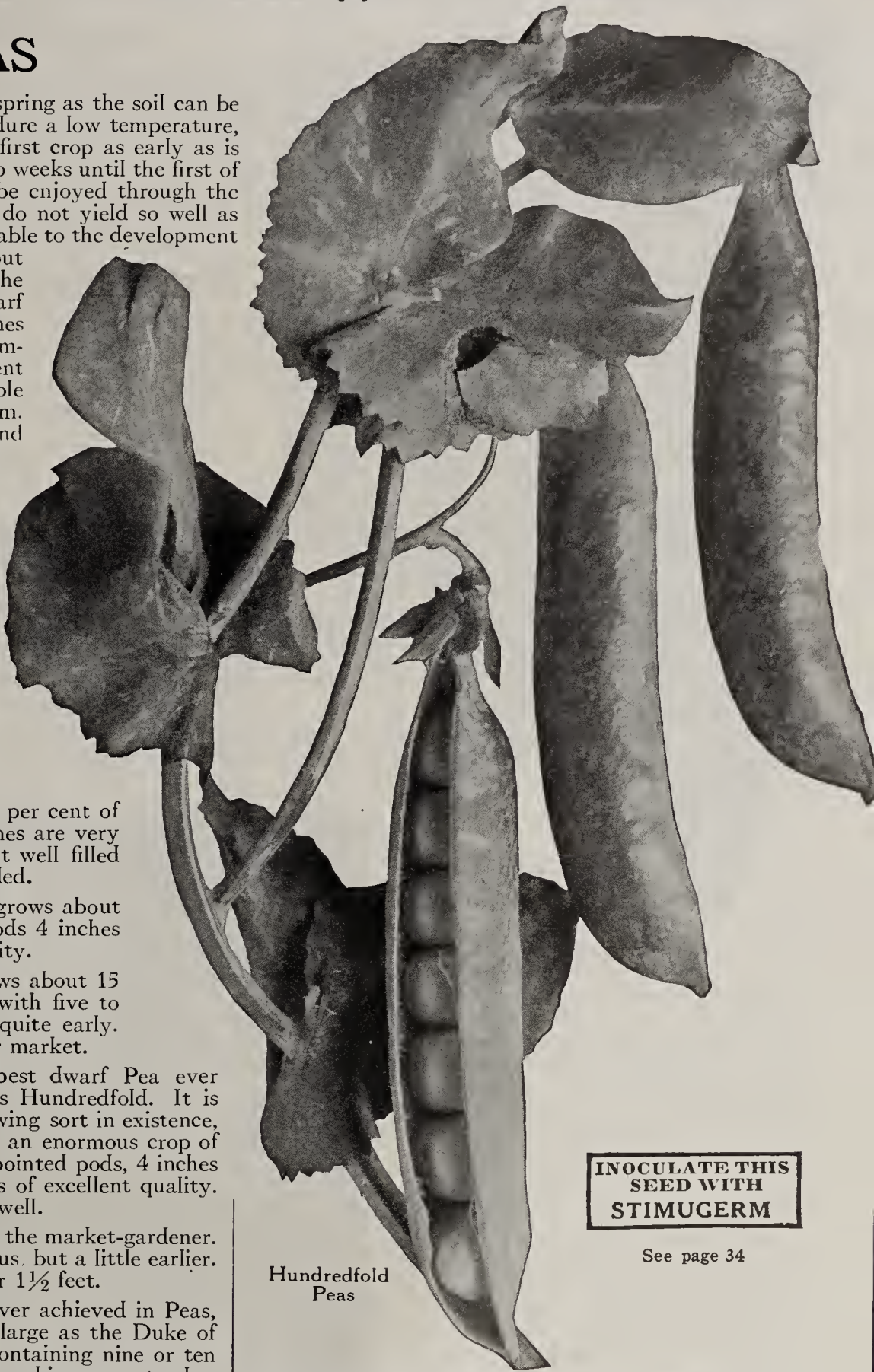
- The W. E. B. Co.'s Maud S.** A favorite with the market-gardeners on account of its earliness, extreme productiveness, vigor, and vitality, often resisting a drought and maturing a crop when ordinary sorts of earlies have failed. 2 feet. Smooth seeded.
- Alaska.** One of the earliest in cultivation; about 75 per cent of the pods can be gathered at the first picking. Vines are very thrifty, growing about 2 feet high; pods small, but well filled with plump, excellent dark green Peas. Smooth seeded.
- World's Record.** An earlier strain of Gradus, and grows about 2 feet tall. Bears a profusion of broad, pointed pods 4 inches long, well filled with dark green Peas of superb quality.
- Little Marvel.** This is a Pea of extra value. It grows about 15 inches high with pods very dark green, well filled with five to seven Peas of excellent flavor; very productive; quite early. We recommend it for either the family garden or for market.
- Hundredfold.** This is, without doubt, the very best dwarf Pea ever grown. We have found none so near perfection as Hundredfold. It is the best-flavored and the largest-podded dwarf-growing sort in existence, ready about three days after the earliest, and bears an enormous crop of handsome, intensely dark green, fairly broad and pointed pods, 4 inches long, containing about eight large, dark green Peas of excellent quality. The vines are 16 inches high, sturdy, and resist heat well.
- Laxtonian.** One of the best dwarf, wrinkled Peas for the market-gardener. Pods about 4 inches long, resembling those of Gradus, but a little earlier. Vines productive and vigorous; average height under 1½ feet.
- Gradus.** This is undoubtedly the greatest advance ever achieved in Peas, for it is as early as the first-earlies, with pods as large as the Duke of Albany and the same shape and color, each pod containing nine or ten wrinkled Peas of the typical fine marrow flavor, cooking very tender. Altogether, Gradus is the most distinct and largest-podded early Pea ever raised.

See next page for additional Extra-Early and Intermediate and Late Peas

VEGETABLE PLANTS

During the planting season, we have on sale from our own growers the following plants:

	Doz.	Flat (about 100)		Doz.	Flat (about 100)
Cabbage.....	\$0 20	\$1 25	Lettuce.....	\$0 20	\$1 25
Cauliflower.....	35	2 00	Pepper.....	20	1 25
Celery.....	25	1 25	Tomato.....	20	1 25
Eggplant.....	35	2 00	Chives. Bunch 20 cts.		



INOCULATE THIS
SEED WITH
STIMUGERM

See page 34

EXTRA-EARLY PEAS	½lb.	Lb.	2lbs.	7lbs.
W. E. B. Co.'s Maud S.	\$0 15	\$0 25	\$0 45	\$1 50
Alaska.....	15	25	45	1 50
Little Marvel.....	15	25	45	1 50
Hundredfold.....	15	25	45	1 50
Laxtonian.....	15	25	45	1 50
Laxton's Progress.....	15	25	45	1 50
Gradus.....	15	25	45	1 50
Nott's Excelsior.....	15	25	45	1 50
Sutton's Excelsior.....	15	25	45	1 50
Tom Laxton.....	15	25	45	1 50
World's Record.....	15	25	45	1 50
INTERMEDIATE AND LATE				
Telephone.....	15	25	45	1 50
Potlatch or Imp. Strat.....	15	25	45	1 50
Mammoth Melting Sugar..	15	25	45	1 50

EXTRA-EARLY PEAS, continued

Nott's Excelsior. Robust and vigorous in growth; throws out laterals from the base of the stock, producing in profusion long, handsome pods, closely packed with large Peas of fine flavor; more vigorous and prolific, with larger pods and more Peas than either American Wonder or Premium Gem. Seed green and wrinkled. 1 foot.

Sutton's Excelsior. This is today probably the most popular dwarf wrinkled sort in America. In this variety we have an early dwarf wrinkled Pea in the front rank for earliness, with much larger and handsomer pods than any dwarf early wrinkled Pea yet introduced. The Peas are very tender and of superlative flavor. Height 15 inches.

INTERMEDIATE AND LATE PEAS

Telephone. Pods and Peas are very large and showy, the latter being sweet and rich; popular. Vines 3½ feet high.

Mammoth Melting Sugar. Best edible-podded Peas.

Canada Field. Used for fodder. Sown with oats. Market price.

For prices of above varieties see page 27

PARSNIPS

Aside from its value as a table vegetable, the Parsnip also furnishes a healthful and nourishing food for stock, and is especially valued for this purpose by dairymen. Sow the seed in drills 15 inches apart, as early as possible in spring, and thin the plants until they are 5 to 6 inches apart in the rows. The roots are improved by frost, and only enough for winter use need be taken up in the fall, leaving the rest in the ground until spring, to be dug up as required. By running a plow, such as is used for breaking sod, along one side of the rows, field crops of Parsnips will be thrown out so that they can be harvested easily. Deep, rich, heavy soil is best suited, but on any deep, rich, mellow soil the yield is good per acre, and the roots will be smooth and large if no fresh manure is used.

An ounce will sow 150 feet of drill; 5 pounds will sow an acre

Champion Hollow Crown. The variety most widely grown; tender, sweet; very productive.

PRICE OF PARSNIPS

	Pkt.	Oz.	¼lb.	Lb.
Champion Hollow Crown.....	\$0 05	\$0 15	\$0 35	\$1 00

PRICES OF PEPPERS

	Pkt.	½oz.	Oz.	¼lb.
California Wonder.....	\$0 10	\$0 30	\$0 50	\$1 50
Worldbeater.....	10	25	40	1 25
Chinese Giant.....	10	30	50	1 50
Harris Early Giant.....	10	25	40	1 25
Large Bell (Hot).....	10	25	40	1 25
Ruby King.....	10	25	40	1 25
Squash.....	10	25	40	1 25
Italian, Sweet.....	10	25	40	1 25
Red Chili.....	10	30	50	1 50
Red Cherry.....	10	30	50	1 50
Long Cayenne.....	10	30	50	1 50
Colossal.....	10	25	40	1 25
Oshkosh.....	10	30	50	1 50
Chicago Finger.....	10	25	40	1 25

Telephone Peas

PEPPERS

Sow in hotbed as early as April, transplant to rich, warm, mellow soil as soon as the weather has become warm and settled, setting them about 2 feet apart in drills 3 feet apart. Seed may be sown later, in the open ground when all danger from frost is over, and thinned to the distance given above.

An ounce of seed will produce 2,000 plants

California Wonder. Nearly as large as, but earlier than Chinese Giant; shape blocky and square ended. It may be set upright and is ideal to stuff and bake, or to serve whole for salad. Heavier and firmer than other sorts, walls exceptionally thick; flavor sweet and spicy with no bite to it.

Harris Early Giant. A very early, large-fruited Pepper. The skin is scarlet-red and the moderately thick flesh is sweet and crisp.

Worldbeater. The color is deep green when fruit is young, deep crimson when matured. The flavor is mild.

Chinese Giant. Very large; uniform; early; very mild.

Large Bell or Bull Nose. Large, thick pods.

Ruby King. Bright red pods, about 5 inches long and 3 to 4 inches thick; mild and pleasant flavor.

Squash. Medium size; thick skin; very productive.

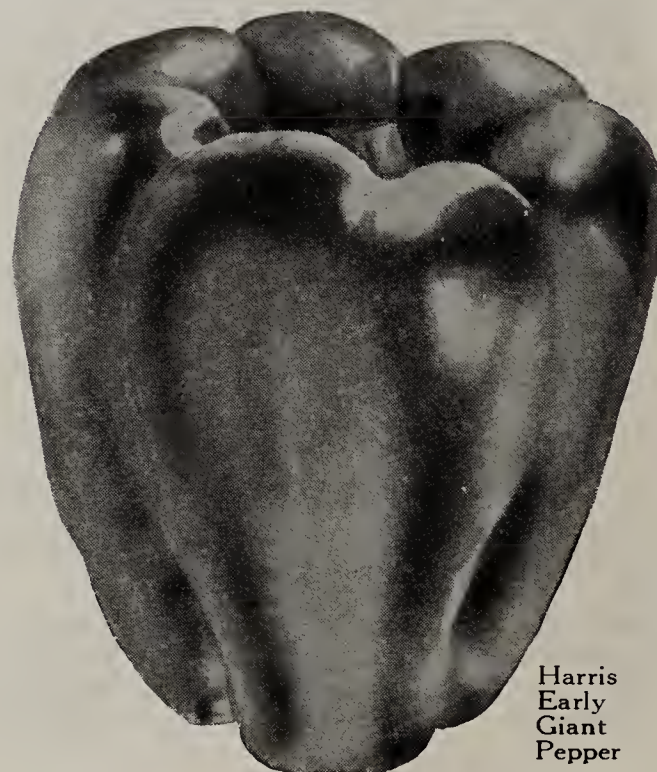
Italian, Sweet. Exceedingly mild flavor; in great demand in this vicinity. Grows 6 or 7 inches in length, diameter about 2 to 3 inches at the base.

Red Chili. Used for making Pepper-sauce. Pods small, conical, scarlet, pungent; plants very fruitful.

Red Cherry. Small, round, bright red.



Champion Hollow Crown Parsnips

Harris
Early
Giant
Pepper

PUMPKINS

The Pumpkin is now little used except for agricultural purposes, the squashes being so much sweeter and drier and finer grained for the kitchen. The farmer, however, finds the Pumpkin a serviceable addition to his feed. The most common method of cultivation is to plant them with corn, two or three seeds to each hill.

- Sugar.** Round, not large, but very sweet, and an excellent table variety.
- Mammoth.** Immense size, often weighing over 100 pounds.
- Connecticut Field.** Very productive; large grown for feeding stock.
- Winter Luxury.** Fine pie pumpkin, round, color russet-yellow, flesh thick, fine flavor.

RADISH

Sow in the open ground as soon as it can be worked, at intervals of ten days for a succession as long as wanted. Sow in hotbed or greenhouse in winter. The winter varieties should be sown in August and lifted before severe frost. As their tender and mild qualities depend on rapid growth, the soil should be rich, light and mellow.

An ounce of seed will sow 100 feet of drill. 10 pounds to an acre

Cooper's Sparkler. Quite distinct; fulfils every requirement; the color is a rich carmine-scarlet, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp, sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground, for while the leaves are small, they are sufficiently large for bunching.

Vick's Early Scarlet Globe. For forcing in the greenhouse, hotbed, or cold-frame, and for sowing in open borders early in the spring, there is no other red variety so desirable. It is the earliest, its color is the handsomest, in flavor it is the mildest, most crisp, juicy, and tender. It forms a small top, and will stand a great amount of heat. It is the market-gardeners' favorite forcing Radish. It will sell "three to one" compared with any round red sort.

French Breakfast. Olive-shaped; red above and white below; medium size; small top and of quick growth; crisp, sweet, and tender.



Icicle Radishes



Vick's Early Scarlet Globe Radishes

Icicle. A handsome first-class early variety, in color snowy white. It grows to the average length of the long varieties, but holds its fullness well down to the tap-root. Exceedingly attractive and excellent in every way.

Long Brightest Scarlet. Vivid scarlet, tipped with snow-white; rapid grower; quality fine.

Long Black Spanish. Roots black; flesh white and slightly pungent. One of the hardiest and latest.

Round Black Spanish. A popular round winter variety with black skin and mild sweet flesh. A good keeper.

White Giant Stuttgart. Very early; grows to a large size; fine quality; firm and brittle.

SALSIFY

When cooked, the roots have something of the flavor and odor of oysters. They may be boiled, used in soups, or grated and fried as fritters. Culture same as for parsnips and carrots. Roots are perfectly hardy, and may be left in the ground all winter, but should be dug early in spring, as the quality deteriorates rapidly with the second growth. A quantity of roots for winter use may be stored in a pit or in sand or damp earth in a cellar.

An ounce of seed will sow 100 feet of drill

Mammoth Sandwich Island. A great improvement on the French sort generally cultivated. The roots are twice as large, smooth, tender, and well-flavored, resembling fair-sized parsnips.



Salsify

PUMPKINS									
	Pkt.	Oz.	1/4lb.	Lb.		Pkt.	Oz.	1/4lb.	Lb.
Sugar.....	\$0 05	\$0 15	\$0 35	\$1 00	Connecticut Field..	\$0 05	\$0 15	\$0 35	\$1 00
Mammoth.....	10	20	60	1 75	Winter Luxury.....	05	20	50	1 50
RADISHES									
Cooper's Sparkler.	05	10	30	1 00	Long Black Spanish.	05	10	30	1 00
Vick's Ea. Scarlet					Long Brightest				
Globe.....	05	10	30	1 00	Scarlet.....	05	10	30	1 00
French Breakfast.	05	10	30	1 00	Round Black Span..	05	10	30	1 00
Icicle.....	05	10	30	1 00	White Gt. Stuttgart.	05	10	30	1 00
SALSIFY, Mammoth Sandwich Island.....						10	20	60	

SQUASHES

Squash seed should be planted at about the same time and in the same manner as cucumbers and melons. The hills should be 9 feet apart each way, slightly elevated, and highly manured. Bush varieties may be planted closer together. Use plenty of seed, as the bugs will destroy some plants.

An ounce will plant from 20 to 40 hills

Warted Hubbard. Dark green. Very hard, warty shells of large size. This strain is especially popular with market-men.

Des Moines or Table Queen.

A Novelty. The vines are vigorous; Squashes small, acorn shaped; color dark green, almost black; size about

6 inches long and 4 inches in diameter; prolific. Quality excellent.

The Warren. Resembles Turban in shape but the shell is rough, warty, thicker and harder, color richer, and a better keeper.

Boston Marrow. An improved strain of Boston Marrow. Fruits deeper orange, more rounded, thicker, smaller seed cavity and better flesh. A productive, good keeper.

Blue Hubbard. Hard shell; thick, dry meat of fine quality; favorite winter sort for Boston market.

Golden Hubbard. This is a very distinct sort of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and of a rich orange-red color, instead of the dark olive-green of the old Hubbard.

Delicious. No Squash compares with it for table use. Remarkably fine and compact grain, dry, sweet, and exceedingly rich in flavor; color almost uniformly a green shade.

Cocozelle. This Italian Squash grows about 15 inches long and has smooth, dark green skin; fine flavored.

Mammoth Chili. Large, nutritious, orange-colored fruits; keep well all winter. For stock-feeding.

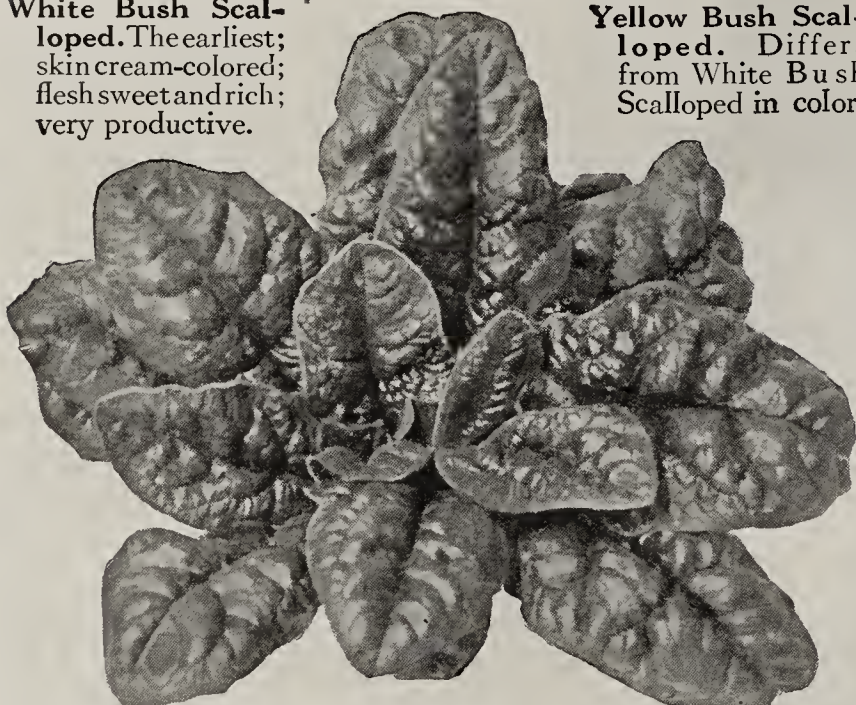
Giant Summer Straightneck. New. Lemon color. The largest of the early Straightnecks, and as early as any; flesh tender and good, cooking quickly.

Golden Summer Crookneck. Early and productive; fruits yellow, covered with water excrescences, as in all this race; flesh fine-grained and rich. Of fine quality.

Winter Crookneck. A favorite late-keeping winter Squash, with yellow skin and sweet, fine-grained flesh.

White Bush Scalloped. The earliest; skin cream-colored; flesh sweet and rich; very productive.

Yellow Bush Scalloped. Differs from White Bush Scalloped in color.



Giant Thick-leaved Spinach



Blue Hubbard Squash

SPINACH

One of the most important crops grown for greens, and may be had in good condition from very early in spring until cold weather. For early use, sow very early in spring, and for succession at intervals. The main crop, for spring and winter use, should be sown in September and the plants covered for winter.

An ounce of seed will sow 50 feet of drill; 20 pounds to an acre

King of Denmark. A new variety which stands a long while without running to seed; large yielder and of excellent quality.

Reselected Bloomsdale Savoy. Hardy; well adapted for winter crops. Leaves large and wrinkled, like a Savoy cabbage.

Giant Thick-leaved. A large, upright-growing, early variety with very thick, large, slightly crumpled leaves of medium green color. Fine for fall and spring sowing. A rapid grower.

New Zealand. Substitute for Spinach during hot weather.

Virginia Blight-resistant. A valuable variety to use for fall sowing on account of its resistance to blight.

RHUBARB

Mostly propagated by division of the roots. Set out the plants early in spring, although it is sometimes done in autumn. Make furrows of good depth, 3 to 4 feet apart, according to variety planted; across these furrows, at right angles, make others the same distance apart; at each intersection put three or four shovelfuls of good manure, and upon this set the plants.

Victoria. In general use for the market; immense crops.

PRICES OF SQUASHES

	Pkt.	Oz.	1/4 lb.	Lb.
Warted Hubbard.....	\$0 10	\$0 15	\$0 40	\$1 25
Old-fashioned Green Hubbard.....	10	15	40	1 25
Des Moines.....	10	20	50	1 50
The Warren.....	10	20	50	1 50
Boston Marrow.....	10	15	40	1 25
Blue Hubbard.....	10	20	50	1 50
Golden Hubbard.....	10	15	40	1 25
Delicious.....	10	15	40	1 25
Cocozelle.....	10	15	40	1 25
Mammoth Chili.....	10	20	50	1 50
Giant Summer Straightneck.....	10	20	50	1 50
Golden Summer Crookneck.....	05	15	40	1 25
Winter Crookneck.....	10	15	40	1 25
White Bush Scalloped.....	10	15	40	1 25
Yellow Bush Scalloped.....	10	15	40	1 25
Vegetable Marrow.....	10	15	40	1 25

PRICES OF SPINACH

King of Denmark.....	10	20	50
Reselected Bloomsdale Savoy.....	10	20	50
Giant Thick-leaved.....	10	20	50
New Zealand.....	10	15	35
Virginia Blight-resistant.....	10	20	50
Long-standing Bloomsdale.....	10	20	50

PRICES OF RHUBARB

Victoria.....	10	20	60	2 00
Roots in Season..Ea. 10c., doz. \$1....				

TOMATOES

For early use, sow in February or March in hotbed or in boxes and pots set in the warm window, and hasten the germination and growth of the plants by good care and frequent watering. When the seedlings are about 3 inches high, transplant them to pots or in rows 4 to 5 inches apart, keeping the temperature at about 60 degrees. Subsequent transplantings will make them branching and stocky, but do not set them in the open ground until all danger from frost is past, then plant them in a warm, sunny place, and water them freely until they are well established. Some support which will keep the fruit above the ground and free from dirt should be given the plants.



John Baer Tomatoes

An ounce of seed will produce about 2,000 plants

- Heterosis.** This new, early variety has medium-sized, round, smooth fruits of a dark scarlet color, as high as twenty in a cluster. The plants are best cultivated with a single shoot. Supply limited.
- Marglobe.** Marglobe is a remarkable pure scarlet, globe-shaped variety of extra-large size and early maturity. It is resistant to nail-head rust and fusarium wilt. Attractive, solid, and tasty.
- Earliana.** This is considered the earliest red Tomato grown. Fair size; good shape; good quality.
- John Baer.** Only a few days later than Earliana, it yields a much heavier crop of larger, more uniform, and more attractive fruit.
- Dwarf Stone.** This splendid new variety is put out by Livingston. Valuable as a general-crop Tomato.
- Stirling Castle.** An excellent sort for forcing under glass, as well as for outdoor culture. Fruit bright, glossy red, smooth, of fine flavor, and very early.
- Dwarf Champion.** Plants compact, stocky and upright, requiring no support. The pink fruit is always smooth and handsome, ripening close to the core and never cracking.
- Ponderosa.** The favorite large-fruited variety. Vines are of strong growth. When planted in rich soil, and pruned to single stem, the fruit often reaches one pound in weight.
- The Stone.** Very large, perfectly smooth fruits are bright scarlet, solid, meaty, with few seeds. Ship and keep well.
- Chalk's Early Jewel.** An early variety of brightest scarlet color, deep-fruited, very solid, with few seeds, and of excellent flavor.
- Acme.** This has, for years, been considered a standard variety. Fruit pink, large, smooth, solid, never cracking, and holding its size well. A good long-distance shipper.
- Early June Pink.** Similar in habit to Earliana and about the best of the early purplish pink sorts. Fruits hang in clusters of six to eight.

TOMATOES, continued

- Yellow Plum.** Fruits are yellow, oval, and very smooth. Used for preserves.
- Strawberry (Winter or Ground Cherry).** The small fruits, enclosed in a husk have a flavor like strawberries, and may be preserved like plums. The vines are always heavily loaded with fine fruits.

TURNIPS

For early crop, sow as soon as the ground can be prepared, in drills 15 inches apart, and thin the plants to stand 6 inches apart. Sow, for succession, at intervals of two weeks until the last week in July, and from that time onward until the last of August, sow for main crop. The sowings should always be made just before a rain, if possible, as the success of the crop depends in a great measure upon quick germination and rapid growth in the young plants.

An ounce of seed will sow 150 feet of drill; 1 pound will sow an acre

- Twentieth Century Rock.** This is now recognized as the standard white winter Turnip.
- Early White Milan.** Very early; pure white; of fine quality.
- Purple-Top Strap-Leaf.** Grown largely for fall and winter crops.
- Early Red-topped Globe.** A large, handsome, globe-shaped Turnip; excellent for the table and extensively grown and pitted for fall and winter use. Remarkable for its heavy yield per acre.
- Early White Egg.** Pure white; egg-shaped; grows rapidly and is fine-grained, sweet, delicate-flavored, and solid.
- Golden Ball.** Most delicate yellow-fleshed Turnip we know of. Medium size, firm, hard, and of superior flavor. An excellent table variety.

TOMATOES					TURNIPS				
	Pkt.	1/2oz.	Oz.	1/4lb.		Pkt.	Oz.	1/4lb.	Lb.
Heterosis	\$0 50				Twentieth Century Rock	\$0 10	\$0 15	\$0 40	\$1 00
Marglobe	10	\$0 25	\$0 40	\$1 25	Ea. White Milan	10	15	40	1 00
Earliana	10	25	40	1 25	Purple-Top Strap-Leaf	10	15	30	75
Bonny Best	10	25	40	1 25	Early Red-topped Globe	10	15	30	90
John Baer	10	25	40	1 25	Early White Egg	10	15	35	90
Dwarf Stone	10	25	40	1 25	Golden Ball	10	15	40	1 00
Stirling Castle	10	40	75	2 00	Macomber	10	15	40	1 00
Dwarf Champion	10	25	40	1 25	Budlong White Rock	10	15	40	1 00
Ponderosa	10	25	40	1 25	Sweet German	10	15	40	1 00
The Stone	10	20	35	1 00	Seven Top	10	15	35	1 00
Chalk's Early Jewel	10	25	40	1 25	Yellow Aberdeen	10	15	40	1 00
Acme	10	25	40	1 25	Cowhorn	10	15	30	75
Early June Pink	10	25	40	1 25					
Red Plum	10	30	50	1 50	RUTABAGA				
Red Cherry	10	30	50	1 50	Improved American	10	15	35	90
Golden Queen	10	30	50	1 50					
Yellow Plum	10	30	50	1 50					
Strawberry	10	30	50	1 50					
Oxheart	10	40	75	2 50					
Break O'Day	10	25	40	1 25					

- Macomber.** Resembles White Rock, but much earlier. A favorite in some sections.
- Budlong White Rock.** Obtained by years of selection and grows much smoother than White Rock.
- Sweet German.** A very popular variety in some sections of the country where it is highly esteemed for its excellent keeping qualities. Large; white; fine quality.

RUTABAGA

Improved American. Large, firm, yellow roots which keep well, and are of good flavor. Hardy, a heavy cropper, and excellent for either table or stock.



Dill

Thyme

Horehound

Anise

Lavender

Sweet Marjoram

Fennel

SWEET AND MEDICINAL HERBS

Anise. Used for garnishing and flavoring. The seeds have an agreeable and aromatic flavor, and are used in medicine.

Balm. Leaves possess a fragrance similar to lemons. Made into Balm tea for fever, and into a beverage called "Balm wine."

Basil, Sweet. For stews, soups, and sauces.

Borage. Excellent for bees. Flowers used to flavor cool drinks.

Burnet. Leaves slightly astringent. Used in salads and soups.

Caraway. The seeds are used in cakes, confectionery, etc.

Catnip. Used for bee food and seasoning.

Coriander. Grown for its seeds, which are used in confectionery.

Dill. Used for pickling. Has an aromatic odor and a warm, pungent taste.

Horehound. Valuable for medicines.

Lavender. Used for perfume.

Marjoram, Sweet. Used for seasoning.

Rosemary. An aromatic, ornamental herb.

Rue. Used for seasoning; also as a remedy for roup in poultry.

Saffron. The flowers are used in dyeing.

Sage. Medicinal, but used principally for flavoring.

Savory, Summer. The dried stems, leaves, and flowers are used extensively for flavoring.

Thyme. The young leaves and tops are used for sauces, soups, and dressings. Also a good remedy for nervous headache when made into tea.

Tobacco, Connecticut Seed-leaf, or Havana. Imported.

Any of above, 10 cts. per pkt.

SEEDS FOR THE FARM

FIELD BEETS

White French Sugar. Much grown in Europe for sugar-making; very sweet and keeps well; much relished by stock. The Beets are very large and the yield per acre is heavy, making it one of the most profitable sorts to grow.

Mangel-Wurzel, Norbiton Giant. A long red variety, preferred by many to common Long Red, as it is considered of better keeping quality; good for deep soils.

Mangel-Wurzel, Golden Tankard. A most important addition to our roots for feeding stock. Flesh a deep, rich yellow, very sweet and nutritious. In shape a little shorter than Norbiton Giant, but thicker. A very heavy cropper.

FIELD CORN (Flint)

Longfellow. The variety most widely grown in New England. An early 8-rowed Flint Corn with long ears and comparatively small cobs, filled to the tips with large, broad kernels.

Rhode Island White Cap. A well-known, early, prolific variety from which is made the celebrated Rhode Island white meal. The yield is very heavy and the Corn is of the highest quality. Local-grown stock.

SEMESAN JR. will improve your crop of Corn if you will treat the seed with it before planting. See page 40

PRICES OF FIELD BEETS				PRICES OF FIELD CORN			
	Oz.	¼lb.	Lb.		2 lbs.	7 lbs.	Bus.
White French Sugar Beet...	\$0 10	\$0 25	\$0 75	Longfellow.....	\$0 25	\$0 75	\$4 50
Mangel-Wurzel, Norbiton Gt.	10	25	75	Rhode Island White Cap.....	25	75	4 00
Golden Tankard.....	10	25	75				

Goods delivered without extra charge locally. Orders by mail or telephone receive the same attention as a personal order

Grain, Grass, Clover, and Miscellaneous Farm Seeds

ALL OF OUR GRASS AND FIELD SEEDS ARE TESTED TO CONFORM WITH THE
PROVISIONS OF THE STATE SEED LAWS

Owing to crop conditions, prices of Grains, Grass, and Clover Seeds, etc., are variable. We assure our customers they will have the full benefit of the lowest market rates for choice, selected stocks.

SWEDISH SELECT OATS

This Oats has made for itself a reputation as an exceedingly heavy and reliable yielder. It is very hardy and prolific and yields beautiful white kernels which are especially desirable for the manufacture of rolled Oats. The straw is valuable for feed and for bedding. The sprangle-top heads, although long, are borne low down on the stalk, which seems to prevent lodging, and are very large in proportion to its stiff, bright, clean straw. As a rule, Oats yield a greater profit per acre than wheat, and they are also a more reliable crop. Market price.

Treat Oats with Ceresan before sowing. See page 40



Eureka Ensilage Corn

EUREKA ENSILAGE CORN

Thousands of farmers and dairymen who have used the Eureka Corn are still of the opinion that it has all the qualities that go to make it an ideal fodder and ensilage variety. It grows quite tall (some 12 to 15 feet), makes a thick growth of fodder, and is very prolific in ears which get to the proper condition for ensilage by the first to the middle of September. Our supply for this season is very choice stock, the genuine Eureka produced for us in Virginia by a reliable grower. Market price.

IMPROVED LEAMING CORN

A superior strain of Yellow Dent Corn, not only valuable for fodder and ensilage, but will produce a big crop of matured Corn almost anywhere in New England, often 100 bushels of shelled Corn per acre. Market price.

SWEET CORN

For Fodder

We are usually able to offer a good stock of this variety at a reasonable price.



Swedish Select Oats

FIELD PEAS

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions of dollars."—*Yearbook of the U. S. Department of Agriculture.*

**INOCULATE THIS
SEED WITH
STIMUGERM**

Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable but will return to the land the much-needed nitrogen. Peas are second only to clover in their soil-enriching properties, and can be grown under almost any condition of soil or climate. The vines make rich, nutritious hay, and if fed green to milch cows, the flow of milk will be almost doubled. They can be sown alone or with oats and fed green. It is surprising the amount of fodder which is produced in this way. Market price.

DWARF ESSEX RAPE

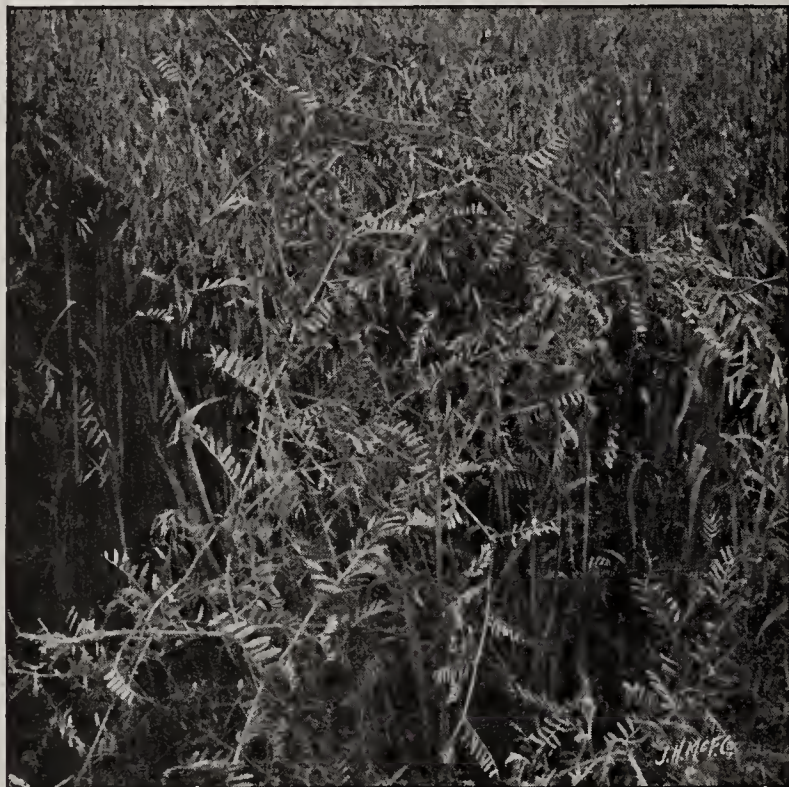
Makes Splendid Fall, Winter, and Spring Pasturage—Fine for Cattle, Sheep, and Hogs.

This is a most important forage plant and is often used by the fruit-grower as a cover crop, or it is excellent for renewing humus in worn-out soils. It grows like a rutabaga, with a very leafy top but no swollen root.

Rape for fall use should be sown in July, August, or September. It makes a large-yielding, nutritious, succulent green feed or pasturage all through the fall and early spring. Rape can be successfully sown both in the fall and spring. Early fall seeding, however, gives the best results. It is best sown in drills at the rate of 3 to 5 pounds per acre, or it can be sown broadcast, when from 6 to 8 pounds per acre should be used. Lb. 10 cts.

COVER CROPS

It is always wise to sow a cover crop on any land that is bare, in the fall as early as September. These crops are to be turned under in the spring and add much fertility to the soil, putting it in much better condition than if no cover crop were raised.



Sand, Hairy, or Winter Vetch

SAND, HAIRY, OR WINTER VETCH

Hairy or Winter Vetches are increasing in popularity wherever they are grown and are proving to be one of the most valuable crops for fall planting. They not only make a large yield of the most nutritious hay, but they improve the condition and productiveness of land for crops to follow, as much as any crop that can be sown, not even excepting crimson clover and cowpeas.

The forage is greatly relished by horses and all kinds of cattle, is very nutritious, and makes fine, milk-producing food.

On some soils, Vetches seem to require soil inoculation, to give the best results, but on the great majority of our soils they will yield splendid crops without any inoculation whatever. Where Vetches do not do so well the first year, it is advisable to reseed them upon the same land, when the resulting crop will be a great surprise in its yield and growth.

**INOCULATE THIS
SEED WITH
STIMUGERM**

Sow 20 pounds of Vetch and 1 bushel of rye or oats to the acre

COWPEAS, New Era. This variety is of real value, both in the southern and in the northern states, as a green summer feed for sheep and as a green crop for plowing under to enrich the soil. Sow for plowing under at the rate of 2 bushels to the acre, or with oats at the rate of 1½ bushels of each per acre.

**INOCULATE THIS
SEED WITH
STIMUGERM**

BEAN, Soja (*Soja hispida*). Resembles a bean. The haulm is stiff and the pods are produced in clusters of from two to five, each containing four smooth, oval, nankeen-colored seeds. This plant is said to thrive well in hot and dry weather.

**INOCULATE THIS
SEED WITH
STIMUGERM**

BUCKWHEAT, Japanese. Earliest and most productive of the Buckwheats.

RYE, Spring. Best northern-grown. Sow 1½ bushels to the acre.

Winter. Sow in September and October at the rate of 1½ bushels to the acre.

WHEAT, Winter. Extra-choice stock.

Spring. Northern-grown.

BARLEY, Chevalier. A two-rowed variety that is more largely used for forage than the six-rowed. Seed grown on the irrigated lands of Montana; very plump, extra-heavy and nearly white. Very good quality.

SEED INOCULATION

*The Best Inoculation
for All
Legume Seeds*



*Means Better Crops,
Better Soils,
Less Fertilizer Expense*

Seeds of all legumes—Clovers, Alfalfa, Sweet Clovers, Beans, Peas, Vetches, Soy Beans, Cowpeas, etc.—will yield far better results if inoculated with **Stimugerm**, and, in addition, leave in the soil a heavy deposit of nitrogen which benefits all succeeding crops in the rotation. **Stimugerm**—always fresh—always strong and virile.

A Sensible Insurance and a Profitable Investment

We believe in inoculation, we favor the pure jelly medium, and we believe in **Stimugerm**. We recommend that all legume seeds purchased from us be inoculated before planting.

HOW TO ORDER: Specify crop and number of bushels you wish to inoculate (one-bushel size contains sufficient bacteria to thoroughly inoculate one bushel of designated variety of legume seed).

*PRICES—For small seeds—Clovers, Sweet Clovers,
Alfalfa, etc.*

¼-bus. size.....	\$0 35
½-bus. size.....	60
1-bus. size.....	1 00
2½-bus. size.....	2 25
10-bus. size.....	8 00

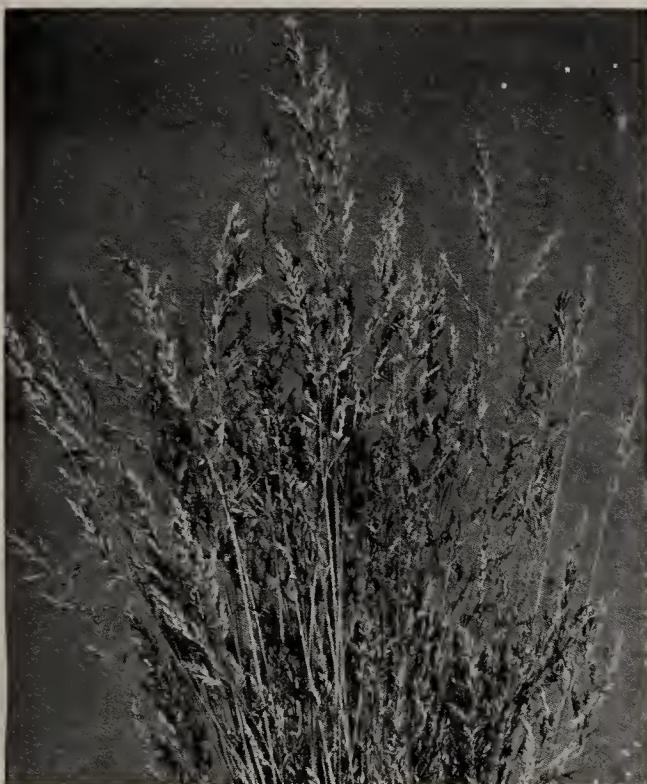
*For Large-Size Seeds—Soy Beans, Cowpeas, Peas, Beans,
Vetches, etc.*

½-bus. size.....	\$0 35
1-bus. size.....	60
5-bus. size.....	2 25

Special Garden Size for Garden Peas, Beans, and Sweet Peas, 25 cts



GRIMM ALFALFA. Only a few strains of Alfalfa equal, and none excel true Grimm Alfalfa in hardiness. It is the safest type to sow wherever there is trouble from winter killing.



Red-Top Grass



Putting-Green

GRASS AND CLOVER SEEDS

All of our Grass and Field Seeds are tested to conform with the provisions of the state seed laws

GRASSES

For General Grass-seeding for Mowing-Lands

Sow Clover, Timothy, and Red-Top mixed. For an acre, 8 pounds Clover, $\frac{1}{2}$ bushel Timothy, 8 pounds Fancy Clear Red-Top.

Treat your Grass Seed with SEMESAN before sowing. See page 40. Ask for descriptive pamphlet

The importance to the farmer of a good selection and proper mixture of grass seeds for the various purposes of cultivation, for mowing, for soiling, for permanent pasture, etc., cannot be over-estimated. We prepare a special mixture containing only the most suitable grasses for permanent pastures and meadow lands, such as Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island Bent, Meadow Fescue, English Rye Grass Perennial Sweet Vernal Red-Top and Clovers. Two to four bushels of this mixture are needed to seed an acre, according to the condition of the land.

Timothy or Herd Grass (*Pbleum pratense*). A well-known nutritious grass, which on most soils will produce a better crop than any other variety. We offer a particularly choice quality of seed. Sow $\frac{1}{2}$ bushel an acre, if alone (45 pounds to the bushel).

Red-Top (*Agrostis vulgaris*). A great favorite, succeeding in a great variety of locations, giving very good results on light soils, and the very best on heavy, moist soils or lowlands liable to overflow, which are so apt to be sour and acid. It does not thrive on sandy or leachy soil. The first year it grows somewhat slowly, spreading by creeping root-stocks. Height, 1 to 2 $\frac{1}{2}$ feet. Maturing at about the same time as Timothy, it is used considerably with it and Red Clover to make a heavier yield. Cut when in bloom in July. It is also a splendid grass for lawns, and is very commonly included in mixtures. The usual rate of seeding is 14 to 16 pounds of fancy re-cleaned seed an acre, but if in the chaff, double the quantity.

Wood Meadow (*Poa nemoralis*). Well adapted for growing under trees and in shaded situations. Dwarf and fine-growing. Sow about 2 bushels an acre (14 pounds to bushel).

Certified Prince Edward Island Bent (*Agrostis tenuis*). A pure, hardy strain of Rhode Island Bent grown on Prince Edward Island, Canada. Forms an ideal turf of dark green color and uniform in texture. Uniformity of texture is the principal requisite of a good putting-green without which the ball will not roll true. Sow 3 to 5 pounds to 1,000 square feet for a green and 2 to 3 pounds for lawn purposes.

Seaside Coos County Bent. A very useful grass for fine lawns and pleasure-grounds, on account of its short growth, deep green and fine-leaved foliage. Indispensable for golf-course, croquet, and cricket fields as well as general lawn formulas. Sow 3 to 5 pounds per 1,000 square feet.

Astoria (R. I.) Colonial Bent. A fine, hardy, very compact grass; very permanent, readily forming a heavy sward. Sow 2 to 3 pounds per 1,000 square feet.

Kentucky Blue (*Poa pratensis*). Known as June-Grass. An early grass of great value; makes a close, velvety turf, and is excellent for pasture; generally sown mixed with other grasses. Sow about 3 bushels an acre, if used alone (finest seed 14 pounds to bushel).

Orchard Grass (*Daclylis glomerata*). It is very satisfactory for the meadow when sown with other grasses, the hay being very nutritious, but it should be cut when in blossom. It is not suitable to sow alone, because of its tufted habit. Especially adapted for shady places, particularly in orchards, wood-lot pastures, and usually sown in the spring, but under favorable conditions may be sown in the fall. Sow 30 to 40 pounds of seed an acre.

Pacey's Perennial Rye. Smaller seeded and finer leaved than the type. The smaller plants it produces are claimed to be more resistant to cold and superior for turf on fairways where grass is needed quickly.

Perennial Rye (*Lolium perenne*). An early, hardy, and very nutritious grass for meadows, pastures, or hay crop. Generally used with other grasses. If used alone, sow 2 bushels an acre (24 pounds to bushel).

PRICES ON GRASS SEEDS.—Owing to frequent changes, we cannot make a fixed price, but assure you we shall sell as low as the lowest for high-grade seeds



Sudan Grass

GRASS AND CLOVER SEEDS, continued

Meadow Foxtail (*Alopecurus pratensis*). Very valuable mixture for permanent pastures exposed to heat and drought; early and rapid in growth; not a valuable hay grass. (8 pounds to bushel.)

Sheep's Fescue (*Festuca ovina*). Of dense growth; excellent for dry situations and sheep-pastures. Sow $2\frac{1}{2}$ bushels an acre. (12 pounds to bushel.)

Hard Fescue (*Festuca duriuscula*). Perennial; $1\frac{1}{2}$ to 2 feet high; June. The most vigorous of the dwarf-growing grasses. Thrives well in dry soils; comes early and withstands long droughts. Very nutritious as a hay crop and valuable for permanent pasture. Sow $2\frac{1}{2}$ bushels an acre. (14 pounds to bushel.)

Chewing's Fescue. Perennial; 2 to $2\frac{1}{2}$ feet high; June and July. On account of its creeping habit is especially valuable for loose, sandy soils and embankments. It easily resists drought and often is green when other grasses are dried up. Sow $2\frac{1}{2}$ bushels an acre. (14 pounds to bushel.)

Tall Fescue (*Festuca elatior*). A valuable perennial grass, very productive and nutritious. It is native to moist, heavy soil where it probably does best, but it succeeds well on any good soil, wet or dry. If used alone, sow 40 pounds an acre.

Meadow Fescue (*Festuca pratensis*). Of great value in mixtures for permanent pastures; very nutritious, of good flavor, and is much relished by live-stock. Sow $2\frac{1}{2}$ bushels an acre (15 pounds to the bushel).

Crested Dog's Tail (*Cynosurus cristatus*). A perennial grass much valued for its dwarf habit and hardness. One of the finest for lawns. Sow 2 to 3 bushels an acre (28 pounds to bushel).

Sudan Grass. A new forage plant closely related to the cultivated sorghums; of value in the dry Middle West as a drought-resisting hay crop. In the East and North should be tried as a substitute for millet, as the crop is larger and has better feeding value. Care should be exercised in turning cattle onto second growth. In rows, 4 to 6 pounds to the acre; broadcast, 20 pounds to the acre.

Clovers Are a Necessity on Every Farm

Clovers enrich the soil, for their roots gather immense quantities of nitrogen-fixing bacteria, which take nitrogen from the air and leave it in the soil in a form readily available for growing crops. Nitrogen is the most expensive chemical to buy in fertilizer. Why not make use of this cheap source and encourage their growth by the use of

STIMUGERM
LEGUME INOCULATION

MILLET or HUNGARIAN GRASS SEED

Prices variable; subject to market fluctuation

Hungarian Grass (*Panicum germanicum*). One of our best forage plants and yields immensely, even when the weather is so dry that other crops dry up. One of the best annual grasses for green fodder or hay. Sow from June 15 to July 31. One bushel seeds an acre. (48 pounds to bushel.)

Millet, Tennessee Golden. Of stronger and taller growth than other Millets and does not mature so early. Sow 1 to $1\frac{1}{2}$ bushels per acre. (50 pounds to bushel.)

Millet, Japanese Barnyard (*Panicum Crus-galli*). This Millet is valuable as a green or dry fodder, or for soiling. It is erect in growth, very leafy, and the stalks are tender and succulent, even when matured. Produces from 15 to 20 tons green fodder per acre. As fodder crop sow 20 pounds to acre

CLOVERS

Medium Red. The well-known Red Clover.

Alsike. Hardy, productive, fragrant; succeeds best on stiff, cold soils.

White. Used in nearly all mixtures for lawns and valuable for pastures.

Crimson. An annual used for soiling and for plowing under to enrich the soil.

Canadian Variegated Alfalfa. Grows and looks much like Grimm. In hardness, intermediate between Grimm and Northwestern Common.

Common Alfalfa. Requires well-drained land and an abundant application of lime previous to sowing. August is the best time to sow. Use 20 to 25 pounds to the acre.

Grimm Alfalfa. Only a few strains of Alfalfa equal, and none excel true Grimm Alfalfa in hardness. It is the safest type to sow wherever there is trouble from winter killing.

White Blossom Biennial Sweet Clover. Of great value as a soil renovator. It will thrive on all classes of soil, which it greatly enriches if plowed under. Sow any time from April until the middle of September at the rate of 15 to 25 pounds to the acre.

Labor-saving devices for the agriculturist are listed, beginning with page 50



Red Clover



NARRAGANSETT SWEEPSTAKES ENSILAGE CORN

This is a hybrid Corn, produced through the breeding of twelve varieties from various sections of the country. By careful breeding the sugar content of Narragansett Sweepstakes Ensilage Corn has been greatly increased. It will produce from five to ten tons more ensilage per acre, with a better food-value than other known varieties on the market. The yield is from seventeen to twenty-nine tons per acre. Due to the methods employed in breeding, Narragansett Sweepstakes Ensilage Corn has a very high vitamin content. Put up in 2-bushel sacks. \$3.50 per bus.

NORTHERN-GROWN SEED POTATOES

Carman No. 3. A handsome, round, white variety of the best quality; large, almost no small tubers. Vines large and vigorous, not troubled by bugs or blight as much as other sorts.

Early Rose. Early, prolific, well-known variety.

Gold Coin. Fine-shaped tubers, rather oblong; white; russet skin. Almost every Potato is of good market size.

Green Mountain. (*Certified stock.*) A late Potato which does well on all kinds of soil; productive; oval; a good keeper, and of fine quality.

Irish Cobbler. (*Certified stock.*) One of the first varieties of Potatoes to be ready for market, and therefore will command a good price. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well developed, and but slightly indented.

Norcross. Hardy; enormous yielder; resists blight. Exceptionally fine variety.

Snow. Medium late, white Potato of a roundish shape. Suitable for all soils; heavy yielder.

Spaulding Rose. (*Certified stock.*) A vigorous grower; great yielder; resembles the Early Rose in shape and color. It is fast finding its place as one of the standard late varieties. We recommend it to all who want a good quality winter Potato.



Green Mountain Certified Seed Potato

Semesan Bel

Before planting your Potatoes, give your seed a Semesan Bel treatment, thereby greatly increasing the yield. It will also reduce scab. We will be pleased to mail you descriptive pamphlet. See page 40.



SPRAYING CALENDAR

This Calendar, based upon the recommendations of the Agricultural Colleges and Experiment Stations of the country, is a brief guide for the general treatment of insect pests and plant diseases.

Timeliness is one of the greatest factors in the control of diseases and pests; in order to spray intelligently, that is, to strike at the proper time, one should know at least the main facts in the life-history of the insect or disease sprayed against. Moreover, it will pay to remember that, for nearly all fungous diseases and some insects, spraying is a preventive, and to be most effective must be done at the time when attacks may be expected, without waiting for the enemy to become apparent.

Spray only on clear, sunny days and finish the work early in the afternoon, so that the application will dry rapidly and before dew falls. Spray evenly and thoroughly, using ample pressure and a nozzle that throws a fine mist, but do not continue until the foliage drips. Never spray when the trees are in blossom.

IN GENERAL TERMS

POISONS, such as Arsenate of Lead, are used to control *leaf-eating* insects. Examples:—Canker Worm, Potato Beetle.

CONTACT INSECTICIDES, such as Tobacco Extracts, Soap Sprays, etc., are used in fighting *sucking* insects. Examples:—Plant Lice, Squash Stink-bug. Sucking insects will not be killed unless they are hit by the spray.

Bordeaux Mixture and Lime-Sulphur are for use against plant DISEASES.

PLANT	ENEMY	SPRAY	FIRST APPLICATION	SECOND APPLICATION	THIRD APPLICATION
APPLE	Aphis	Black Leaf 40 in conjunction with Arsenate of Lead.	When buds show pink.	In conjunction with spray for scab.	
	Bud Moth Codling Moth Scab Curculio	Arsenate of Lead and Bordeaux. Dry Lime-Sulphur 1-50 after apples have set.	Just before blossoms open.	Immediately after petals fall.	10 days later.
	San Jose Scale	Lime-Sulphur or Scalecide as dormant spray.	Autumn after leaves have fallen, or	Early Spring before leaf buds swell.	If badly infested, make both applications.
CABBAGE CAULIFLOWER	Green Worms	Arsenate of Lead, if plants are not heading.	If heading, apply Hellebore.		
CARNATION	Red Spider Rust	Clear Water. Semesan.	Syringe off the plants 3 times a week, being careful not to drench the beds. In the greenhouse once in 2 weeks. In the field once a week.		
CUCUMBER MELON SQUASH	Wilt Mildew	Bordeaux.	Middle of July.	10 days later.	
	Striped Beetle Borer	Heavy application of Tobacco Dust. Bordeaux. As soon as stems are long enough cover the joints with earth so that secondary roots will develop.	Keep the vines well sprayed to make them distasteful to the beetles.		
CURRANT GOOSEBERRY	Currant Worm	Arsenate of Lead and Bordeaux.	As soon as worms appear.	Use Hellebore after fruit is half grown.	
	Mildew	Bordeaux.	Before leaf buds open.	After blossoming.	
GRAPE	Rose Chafer		Ansect when pest appears.	Repeat if necessary.	
	Flea-beetle Mildew	Arsenate of Lead. Bordeaux.	Before blossoms open. Before blossoms open.	When fruit has set.	2 weeks later.
PEACH AND APRICOT	San Jose Scale Peach Leaf-curl	(See under Apple). Lime-Sulphur or Bordeaux.	Dormant season before buds swell.		
	Curculio Peach Borer Scab and Brown Rot	Arsenate of Lead. Para-Dichlorobenzene. Dry Lime-Sulphur 1-50.	When shucks are shedding from the young fruit. One month after petals fall.	One month after petals fall. One month before fruit ripens.	
PEAR	Psylla	Black Leaf 40. Lime Sulphur or Scalecide as delayed dormant spray.	After blossoms fall.	5 to 7 days later.	
	Codling moth Scab Scale	(Sec under Apple).			
PLUM	Curculio Fungous diseases	Arsenate of lead. (Sec under Peach).	Just after blossoms fall.	1 week later.	
POTATO	Scab Beetles Blight or Rot Aphis	Dip in solution of Semesan Bel. Arsenate of Lead and Bordeaux. Black Leaf 40 as contact spray.	When plants are 6 or 8 inches high.	2 weeks later.	Repeat every 2 or 3 weeks; omitting arsenate of lead if beetles are not in evidence. Wet spells followed by hot weather are favorable to development of rot and blight.
RASPBERRY BLACKBERRY DEWBERRY	Anthraxnose Red Rust	Bordeaux. Dig up and burn all infected plants.	When new canes are 6 inches high.	2 weeks later.	2 weeks later.
ROSE	Rose-chafer Black spot Mildew	Ansect. Funtrogen. Funtrogen.	When beetles appear. As soon as spots appear. Dust every 10 days if necessary.	Repeat when necessary. Repeat when necessary.	
STRAWBERRY	Leaf spot or rust	Bordeaux.	3 or 4 times during the season.		

For Plant Lice (Aphids) use Tobacco Extracts or Soap Sprays on all Plants



INSECTICIDES AND FUNGICIDES

Items marked with an asterisk (*) can be mailed or sent by parcel post

ANTROL. The latest method of combating ants. A complete control system consisting of special patented glass containers and Antrol syrup, U. S. Government formula. Sets consisting of 4 containers and a 4-oz. bottle of Antrol syrup, 75 cts. Extra containers 10 cts. each. Antrol syrup, 4-oz. bottle 35 cts., pt. 85 cts., gal. can \$3.50.

***APHISTROGEN.** Makes a complete spray for aphids (plant-lice) and most sucking insects; prepared especially for roses and other plants. 4 ozs. 75 cts., ½lb. \$1.25, 2 lbs. \$3.50.

***ATLACIDE.** (Dust Your Weeds Away.) A non-poisonous weed-killer to be used either as a dust or can be dissolved in water and sprayed on the vegetation. One pound is sufficient to kill 100 to 450 square feet of weeds and grasses. Kills poison ivy, quack grass, thistles, and many other kinds of troublesome weeds. Lb. 50 cts., 3½-lb. can \$1.50.

BLACK-LEAF 40 (Sulphate of Nicotine). Highly recommended by spraying experts for destroying aphids, thrips, etc., without injury to foliage. Perfectly soluble in water; no clogging of nozzles. Oz. 35 cts., 5 ozs. \$1, lb. \$2.10, 10 lbs. \$10.15.

***BUG DEATH.** A non-poisonous powder, sure death to potato, squash, and cucumber bugs, currant and tomato worms. Safe to handle. Applied dry or in water. This insecticide and plant-food combined has been on the market for twenty-five years. Lb. 20c., 3 lbs. 50c., 5 lbs. 75c., 12½ lbs. \$1.50, 100 lbs. \$9.

***CROW-REPELLENT.** A non-poisonous oil for protecting newly planted corn from crows and blackbirds. Don't kill the crows—they are valuable bug destroyers. Corn treated with this oil will run through a seeder better than when treated with tar. ½pt. 60 cts., pt. \$1.

CYANOGLAS. Valuable for greenhouse fumigation, for destroying aphids, white fly, thrips, etc. Scatter along walks and close the house for the night. ½lb. 45 cts., lb. 75 cts., 5 lbs. \$3.

DOLGE WEED KILLER. A clean, concentrated, super-strength liquid chemical, which sinks into the ground, destroying the tops and roots of all existing growth. Qt. 60 cts., gal. \$1.75, 5 gals. \$6.75.

***FISH- or WHALE-OIL SOAP.** A very effective, simple, and cheap preparation for the preservation of trees, shrubs, plants, vines, rose bushes, and garden plants in general from the ravages of insects. Lb. 30 cts., 5 lbs. \$1.40.

FUNGTROGEN. Effective remedy for conquering mildew on roses; destroys black-spot. ½pt. 75 cts., pt. \$1.25, qt. \$2, 2 qts. \$3.50.

***GRAPE DUST.** For destroying mildew on grape-vines and trees affected with mold, mildew, or rust-mites. 5 lbs. 75 cts.

HELLEBORE, White Powdered. An excellent protection from currant worms, grape slugs, etc. May be applied by dusting on with a bellows, or as a liquid, mixed at the rate of 1 pound to 30 gallons of water. ½lb. 35 cts., lb. 60 cts.

INSECTROGEN. A complete spray—poison, fungicide, and fertilizer. Excellent for roses, phlox, etc. 4 ozs. 60 cts., ½pt. \$1, pt. \$1.75, qt. \$2.75.

***KALCO.** The combined casein spreader and adhesive which makes orchard and garden spraying more economical and more efficient. Kalco is now used by fruit and vegetable growers in all parts of the United States. 2 lbs. 50 cts., 10 lbs. \$2.30.

***LEMON OIL.** An effectual insecticide for cleaning plants of lice, scale, mealy-bug, spider, thrips, black and green fly, mites, ants, and mildew. ½pt. 35 cts., pt. 60 cts., qt. \$1.

LIME-SULPHUR, Concentrated Solution. Convenient to use, free from sediment, requires no preparation other than stirring into water. One of the best remedies for San José scale. Gal. 75 cts., 5 gals. \$3.25, bbl. (50 gal.) \$8.50.

NICO-FUME, Liquid. An effective vaporizing liquid. ¼lb. 75 cts., lb. \$2.

NICO-FUME, Paper. A nicotine preparation. Furnishes easiest method of fumigation. Box of 24 sheets, \$1.25; 144 sheets, \$4.50.

NICO-FUME, Powder. For fumigating greenhouses; contains 12½ per cent nicotine. Lb. \$1, 5 lbs. \$3.35, 10 lbs. \$5.85.

PARIS GREEN. One of the oldest insecticides, very effectual in ridding potatoes of the potato beetle. Add 1 pound to 50 gallons of water. ¼lb. 20 cts., lb. 45 cts.

POMO-GREEN with Nicotine. A leaf-green, all-in-one dust for spray for control of both insects and diseases on flowering plants and shrubs. Highest rating given in tests conducted by American Rose Society. 1-lb. can 75 cts., 5-lb. can \$3, 50 lbs. \$20.

PYROX, BOWKER'S. Pyrox is a powerful fungicide, also kills chewing insects. It is a strong poison insecticide combined with the copper fungicide. Pyrox is easy to use—just mix with water, and spray. It sticks to the foliage and gives lasting protection. It is a creamy paste, so smooth and fine that it goes through the finest nozzle without clogging. Lb. 50 cts., 5 lbs. \$1.75, 10 lbs. \$3, 25 lbs. \$6.25, 50 lbs. \$10.75, 100 lbs. \$15.50.

NICOTINE-PYROX. A complete spray, killing the 31 common varieties of insect pests and controlling disease. It contains arsenate of lead, nicotine sulphate, and a copper fungicide. 10-oz. bottle 50 cts., 40 ozs. \$1.75.

***RED ARROW INSECT SPRAY.** A powerful, non-poisonous spray for the destruction of aphids, hard-shelled beetles, and all sucking insects. It kills by contact and will not harm foliage, flowers, or fruits. 1-oz. bottle 35 cts., ¼-pt. can \$1, ½-pt. can \$1.75, 1-qt. can \$6, 1-gal. can \$20.

SCALECIDE. Sure death to the San José scale. A soluble petroleum spray for use in orchards. It is economical, effective and acts as a fungicide. Qt. 60 cts., gal. \$1.40, 5 gals. \$4.90, 15 gals. \$12, 50 gals. \$26.50.

***SLUG-SHOT.** One of the best remedies for cabbage and currant worms. Apply as bought. Lb. 20 cts., 5 lbs. 65 cts.

SNAROL. The most satisfactory material ever used for the control of cutworms, snails, slugs, etc. Non-injurious to vegetation and very economical because of its insolubility in water, thereby rendering it effective for one to three weeks under ordinary conditions. ½lb. 35 cts., 4 lbs. 85 cts., 15 lbs. \$3.

SULFOCIDE. A powerful fungicide for summer spraying. When sprayed, it quickly decomposes leaving a film of extremely fine sulphur. This sulphur is so fine as to be almost invisible except where drops accumulate. It is actually precipitated on the leaf as true colloidal sulphur, which is sulphur in its strongest fungicidal form. Qt. 85 cts., gal. \$2.25, 5 gals. \$7.50.

SULPHUR-DUST. Used on grapes as a fungicide. Lb. 10 cts., 100 lbs. \$4.50.

SUNOCO SPRAY OIL. An ever-ready, self-emulsifying, permanent spray material, for dormant and summer use. Ask for booklet of spray schedules and detailed information. Gal. \$1.25, 5 gals. \$5, 15 gals. \$9.30, 30 gals. \$15, 50 gals. \$23.

TEROGEN. A ground-dressing, fungicide, insecticide, and fertilizer for roses. To be applied in the fall for best results. Lb. 75 cts., 2 lbs. \$1.25, 5 lbs. \$2.75, 10 lbs. \$4.75.

***TREE TANGLEFOOT.** A perfect safeguard for trees against gypsy, brown-tail and tussock moths, canker worms, ants and all creeping things. It will remain sticky three months, fully exposed to the weather. Lb. 60 cts., 5 lbs. \$2.75, 10 lbs. \$5.25.

TOBACCO DUST. If dusted on while the foliage is moist, it destroys rose lice, cabbage and turnip fleas, etc. Spread upon the ground, it keeps off all earth insects, and is an excellent fertilizer. Lb. 15 cts., 100-lb. bag \$5.

TOBACCO STEMS. For fumigating plants infested with green fly, etc. 100 lbs. \$4.

VOLCK. A refined oil emulsion that may be used on the most tender foliage for controlling many sucking insects. Will not discolor foliage. ½pt. 50 cts., pt. 75 cts., qt. \$1, gal. \$3.

WILSON'S O. K. SPRAY. A powerful, yet harmless and efficient insecticide. Equally good on house plants as well as in the garden. ½pt. 40 cts., qt. \$1, gal. \$3, 5 gals. \$12.

SHERWIN-WILLIAMS**INSECTICIDES AND FUNGICIDES**

We have found Sherwin-Williams Spraying Materials to give best results for the particular requirements of this section. Our customers' experiences back this endorsement too.

**DRY LIME-SULPHUR**

A standard Lime-Sulphur Solution in dry, powdered form. Has all the advantages of liquid Lime-Sulphur with none of the disadvantages. The first and original dry product. Its endorsement by various experiment stations is the result of its effectiveness under test and its successful use by many of the largest fruit growers in the country. Lb. 25 cts., 5 lbs. \$1.15, 12½ lbs. \$2.25, 50 lbs. \$7, 100 lbs. \$13.

DRY ARSENATE OF LEAD

The most widely used Arsenate of Lead on the market. It is unusually light, thus staying thoroughly in suspension during spraying operations and giving uniform strength. Has maximum killing power, quick action, and unquestionable effectiveness in controlling leaf-eating and chewing insects without danger of burning the foliage. Lb. 25 cts., 4 lbs. 80 cts., 100 lbs. \$14.

FUNGI-BORDO

A true Bordeaux Mixture in dry, powdered form, requiring only to be mixed with cold water to give the standard Bordeaux Mixture spray. Wide use of this material in this locality has proved this dry product to be



popular and all that is claimed for it. Lb. 20 cts., 4 lbs. 60 cts., 100 lbs. \$12.

PESTROY

A combination of Bordeaux Mixture and Arsenate of Lead in dry form. Saves time, trouble, and muss. Highly recommended for fruit trees, gardens, and potatoes. Lb. 30 cts., 4 lbs. \$1.

**SEED DISINFECTANTS****SEMESAN BEL**

An instantaneous dip disinfectant for seed potatoes.

4-oz. tin.....	\$0 50	25-lb. pail.....	\$31 25
1-lb. tin.....	1 75	100-lb. drum.....	120 00
5-lb. tin.....	8 00	300-lb. drum.....	345 00

Baskets for dipping, \$2 each.

CERESAN

A dust disinfectant for wheat, oats, barley and certain other cereals.

8-oz. tin.....	\$0 50	25-lb. pail.....	\$12 50
1-lb. tin.....	75	100-lb. drum.....	49 00
5-lb. tin.....	3 00	300-lb. drum.....	144 00

SEMESAN

A general disinfectant for many vegetable and flower seeds or bulbs, and certain plant diseases.

2-oz. tin.....	\$0 50	25-lb. pail.....	\$46 25
1-lb. tin.....	2 50	100-lb. drum.....	180 00
5-lb. tin.....	11 75	300-lb. drum.....	525 00

SEMESAN JR.

A dust disinfectant for seed corn.

4-oz. tin.....	\$0 40	25-lb. pail.....	\$28 75
1-lb. tin.....	1 50	100-lb. drum.....	110 00
5-lb. tin.....	7 00	300-lb. drum.....	315 00

Du Bay Seed Disinfectants are poisonous and owing to present Postal Regulations cannot be sent through the mails but must be sent by express or freight

Niagara Dust and Spray Materials

KOLODUST. A new sulphur dust that you can see stick through wind and rain. Extreme fineness of particles together with high toxic properties make Kolodust the superior fungicidal sulphur dust. Used for control of apple-scab, brown-rot and many other fungous diseases.

100-lb. bag.....	\$5 45	25 lbs.....	\$2 10
50 lbs.....	3 25		

KOLOTEX. Same type of sulphur as Kolodust but combined with poison for control of chewing insects as well as diseases. Used in applications where poison is necessary. See booklet "When and How to Dust." 100-lb. bag \$7.

COPO-DUST. The superior copper fungicide dust used for control of potato blight and various other fungous diseases on vegetables. Apply at the rate of 25 to 35 pounds to the acre on potatoes. May be mixed with water to make a bordeaux spray. 100-lb. drum \$7.75.

COPO-TEX. A combined copper fungicide and insecticide dust for control of potato beetle and other leaf-chewing insects as well as disease. Apply at the rate of 25 to 35 pounds per acre. May be mixed with water for spraying purposes. 100-lb. drum \$9.75.

KOLO-FORM. The ideal summer spray for peaches, plums, etc., for control of apple-scab, brown-rot, and other diseases. Will not burn when used at the rate of 7½ pounds to 50 gallons of water. Mixes readily and stays in suspension. 7½-lb. pkg.....\$0 75 | 60-lb. case.....\$4 00

P-A NICOTINE DUST. A 4 per cent nicotine dust for aphids, red bug, pear psylla, cucumber beetle, etc. The best contact dust for controlling sucking insects. 100-lb. drum \$19.

For Lawns
Gardens
Flowers
Shrubbery
Trees

VIGORO

Specially prepared plant food

Clean
Odorless
Easy to Apply

For Gardening Success



Scientifically balanced and complete, Vigoro is a specially prepared plant-food. It contains all of the elements necessary to grow richly colored flowers, velvety lawns, succulent vegetables, luxuriant shrubbery, and healthy trees.

Vigoro is odorless and clean. It can be applied by hand just like grass seed.

Complete directions for applying Vigoro for all plants are contained in every bag. Vigoro should be used at the rate of 4 pounds per 100 square feet (10 ft. x 10 ft.) in the spring and fall. Use one-half this amount for summer feeding.

100-lb. bag.....	\$5 00	10-lb. pkg.....	\$0 85
50-lb. bag.....	3 00	5-lb. pkg.....	50
25-lb. bag.....	1 75	12-oz. pkg.....	10



WIZARD BRAND Sheep Manure

manure. It has a lasting, beneficial effect on the soil.

Flower-Gardens. Luxuriant green foliage and a wealth of vivid colored flowers will result if you feed your plants with Wizard. Use a handful well mixed with the soil under each new plant. Broadcast 10 pounds to 100 square feet of garden soil.

Lawns. Wizard Sheep Manure produces thick, velvety lawns of lasting beauty. Make an application early in the spring, and, if possible, again in the fall. On new lawns, broadcast 10 pounds to 100 square feet and rake into the surface soil. To renew old lawns, rake well and broadcast 6 to 10 pounds per 100 square feet.

Vegetables and Fruits. Every practical gardener knows that there is nothing better than manure to grow big crops of vegetables. Fruit crops respond quickly to this natural plant-food.

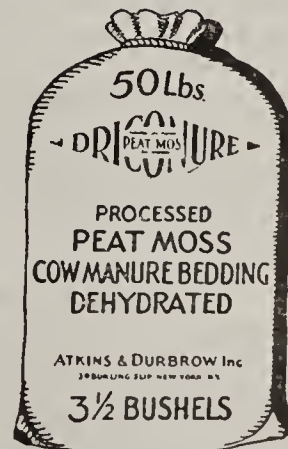
5 lbs. 40 cts., 10 lbs. 65 cts., 25 lbs. \$1,
50 lbs. \$1.50, 100 lbs. \$2.75

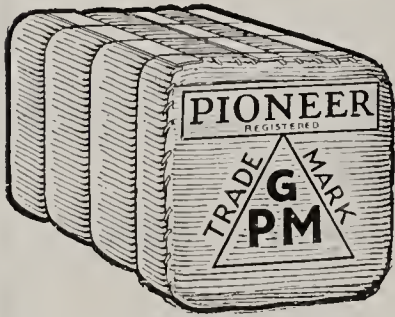
DRICONURE

Lawn and Garden Top-Dressing and Soil-Conditioner

The need for a high-grade, sterile, odorless, ready-to-use dehydrated cow manure, combined with a sterile, high-test source of organic media contributing active humus to soils, brought about the development of **Driconure**. The ingredients are just manure from high protein-fed cows and quality peat moss, functioning as a humus-making material and as a reservoir for soil-moisture. The composition is about 35 parts peat moss and 65 parts cow-feces—no straw, shavings, or trash. It analyzes almost equivalent to a 2-1-2 fertilizer. Application: New seedlings from 20 to 40 pounds (depending on the soil) to each 150 square feet. As a top-dressing for lawns, 50 pounds to about 400 square feet.

5-lb. pkg. 50 cts., 50-lb. bag \$2.25



**G. P. M. PEAT MOSS**

As a material to improve the mechanical condition of the soil, G. P. M. Peat Moss has no equal. It helps to bind together loose and sandy soils and to break up and render more friable heavy and clayey soils.

As a mulch, it meets every requirement.

As a propagating material it has no equal, and is of great value in storing bulbs and as a forcing medium.

Bales (about 19 bus.) \$3.75; Trial Bales (about 14 lbs.) \$1.50.

SORBEX

A specially selected, finely ground Peat Moss, and so fine that it may be used as a top-dressing for fine turf and will readily and quickly work into the turf. While it is not a fertilizer, it will put your soil in the correct mechanical condition for the fertilizer you may add, making them remain available for use by the plants. It will absorb and hold 10 to 12 times its own weight in moisture.

80-lb. bag (about 10 bus. when loosened) \$3; Trial Package 10 cts.

DARLING'S FERTILIZERS**Darling's Animal Fertilizer**

Our Animal Brand is a complete fertilizer for all crops, having a strong analysis of plant-food. No mistake can be made in using this brand. Complete and well balanced, the above Fertilizer may be depended on to raise any crop on which it is used. 100-lb. bag \$3.

Potato and Root-Crop Manure

This Manure is well established with potato-growers, and for all root crops is considered one of the best-balanced fertilizers ever sold. Being composed of the very best materials, it will carry your crop to maturity without becoming exhausted. 100-lb. bag \$3.25.

Farm Favorite

The highest-grade low-priced fertilizer on the market, and for all crops above ground will give good results. 100-lb. bag \$2.75.

Darling's Pure Fine Bone

Contains from 20 to 25 per cent of pure phosphoric acid, and 3 to 4 per cent ammonia. Is the very best material from which phosphoric acid can be obtained. 10 lbs. 50 cts., 25 lbs. \$1.10, 50 lbs. \$2, 100 lbs. \$3.50.

Darling's Lawn Dressing

There is a call at the present time for a commercial fertilizer to be used on the lawn. Stable manure is objectionable, as it is bulky, containing a large amount of refuse material. It also contains the seeds of many weeds and obnoxious grasses that are difficult to root out when once they have gained a foothold. By the use of this fertilizer, all these objections are removed. Will produce an excellent growth of rich green grass. 10 lbs. 50 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$3.50.

ACID PHOSPHATE

Guaranteed 16 Per Cent Available Phosphoric Acid

Acid Phosphate is recommended for all grain and grass crops, cowpeas, soy or soja beans, and for applying to lands deficient in phosphoric acid. Beneficial results follow the addition of Acid Phosphate to stable and barnyard manure, all manure being deficient in phosphoric acid but high in ammonia, the mixture giving a better balanced plant-food. 100-lb. bag \$2.

NITRATE OF SODA

The most readily available form in which nitrogen can be had. Largely used for forcing vegetables, strawberries, etc., for applying to grass fields after each cutting, producing a strong, healthy growth and wonderfully increasing the yield. 25 lbs. \$1.50, 50 lbs. \$2.50, 100 lbs. \$3.75.

MURIATE OF POTASH

A popular form of the essential potash salts. It produces a very beneficial effect when applied to hay or pasture fields at the rate of 100 to 150 pounds to the acre. All root crops, potatoes, beets, turnips, and the like require a large proportion of potash in order to develop properly. 100 lbs. \$3.75.

SULPHATE OF AMMONIA

The most highly concentrated form in which this very important plant-food element is obtainable. It should therefore be used with caution and preferably mixed with other fertilizers, using not over 125 pounds of the Sulphate to the acre. 100 lbs. \$3.75.

LAND LIME

Ready for immediate distribution, or will keep indefinitely when stored in a dry place. 50-lb. bag 50 cts., 100 lbs. \$1. Carlots on application.

PURE CANADA UNLEACHED HARDWOOD ASHES

Wood ashes is one of the best fertilizers for top-dressing lawns, grass lands, and seeding down, imparting a rich, dark shade of green, destroying insects and weeds, particularly moss; also for fruit of all kinds, especially strawberries, peaches and apples. 100-lb. bag \$2.

ADCO

A powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure equal to the farmyard product in fertilizing power, but free from foul odor, flies, weed seeds, etc. 25-lb. bag \$2.

FLORANID (Urea)

The strongest plant-food known—very active, entirely soluble, containing 46 per cent nitrogen. When blossoms appear, then use **Floranid** in small quantities. It develops the blossoms, brings them to healthy maturity, gives bright colors, and puts a wonderfully brilliant green into leaves. Lb. 25 cts., 5 lbs. 90 cts., 10 lbs. \$1.50, 25 lbs. \$2.75.

NITROPHOSKA

A complete fertilizer, very concentrated, therefore a little goes a long way. An ideal plant-food for general growth, having a composition of 15 per cent Nitrogen, 30 per cent Phosphoric Acid, 15 per cent Potash. Ideal for greenhouse and potted plants; for all flowers; for lawns, vegetables—wherever plant-food is needed. Lb. 25 cts., 5 lbs. 90 cts., 10 lbs. \$1.50, 25 lbs. \$2.75.

TWO-IN-ONE PEAT POULTRY MANURE

An ideal top-dressing for lawns, golf-courses, and around shrubbery, small fruits, etc.

Use it in composting, in making new lawns, in the nursery, in the flower or vegetable garden, or wherever a luxuriant foliage and floral growth is desired.

As a top-dressing or when mixed with the soil, 5 pounds to 100 square feet (10 x 10 ft.) is recommended. If drilled in the row, use 2 pounds to 50 feet of row. For window-boxes and house-plants, mix 4 ounces in 10 pounds of soil, or 1 tablespoonful in 1 quart of soil. Then wet down thoroughly. 5 lbs. 60 cts., 25 lbs. \$1.75.

SOILTEX

Tells what your soil needs. A new, quick, accurate soil-testing method that determines exactly in a few minutes whether your soil is acid and how much lime it needs. Pocket-size soil-testing outfit, with color chart and lime table, \$1.



Individual hothouses for every plant

Germāco Hotkaps

“Hotkaps” furnish each young plant with complete protection from wind, rain, frost, and insects. Now have hardier crops that mature earlier!

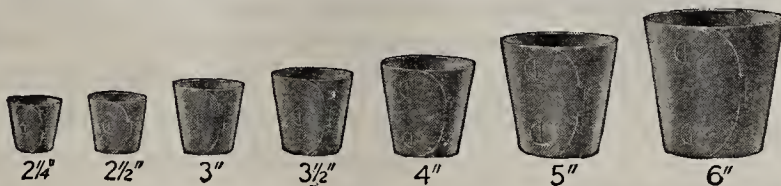
“Hotkaps” bring crops to *earlier* maturity. Many write us that they have been first to market by from one to three weeks, and as a result have been able to get higher prices.

Farmers quickly appreciate them. Once you’ve tried them, you’ll *always* use them. They afford the best crop insurance, and bring you more profit. Ask for special circular.

Single cartons containing 1,000, \$9.75; 5 cartons, \$9.60 each; 250 in trial packages including Garden Setter, \$3.50; 100 in Home Garden Package, with Setter and Tamper, \$2.25; Standard Germāco Hotkap Steel Setter, \$2.50.

Extra charge for Parcel Post delivery

Bird’s RED NEPONSET Flower Pots



These Pots are made of a tough, waterproof paper that gives them lasting strength and they are the most economical for storage, shipping, and miscellaneous purposes. They permit speed in handling, and, if it is desired, it is very easy to remove the plants from them.

Size	Doz.	100	Size	Doz.	100
2 1/4-inch.....	\$0 08	\$0 50	4-inch.....	\$0 20	\$1 00
2 1/2-inch.....	10	60	5-inch.....	25	1 25
3-inch.....	12	65	6-inch.....	30	1 65
3 1/2-inch.....	15	75			

TWINE AND TYING MATERIALS

White Cotton. Ball 8 cts., lb. 25 cts.

Jute. 2, 3, or 4-ply. Ball 15 cts., lb. 20 cts.

Binder. 5-lb. ball 75 cts., 8-lb. ball \$1.15.

Celery Tape. For tying celery and asparagus. \$1.50 per 1,000 yards.

Raffia. Tough and pliable. Lb. 25 cts.

White Cotton. 30-ply. Ball 25 cts.

Linen, Polished. Ball 30 cts.

Cotton, Red and White. Ball 8 cts., lb. 25 cts.

Heavy Express. Ball 30 cts.



Tomato plants nine weeks old. Planted with same seed. The increased yield for Mulched Tomato plants is over 44 per cent

GATOR HIDE MULCH PAPER

Unrolled over the proposed plant-beds, and anchored by soil or other available material along the edges, Gator Hide Mulch Paper imprisons all the moisture in the soil. It catches and retains the sun’s heat. This raises the soil’s temperature, prevents cooling at night, and promotes continuous bacterial activity, liberating night and day nitrous food matter for the plant, producing bigger, better, and earlier crops.

Planting is done through holes made in the paper, or in the space between two strips of paper rolled out close together. Ample space is provided for plants, but none is left for weeds; nourishment the latter usually steal from soil is saved for crops.

Type A—for Annuals—primarily in field culture: 18-in. wide, 300 linear yards to the roll, \$2; 36 in. wide, 300 linear yards to the roll, \$4.

Type B—for Perennials in field culture and all garden work: 18-in. wide, 150 linear yards to the roll, \$2; 36 in. wide, 150 linear yards to the roll, \$4.

Garden package 65 cts.

KNEELING-PADS

Made of sponge rubber. The use of this Pad will protect the clothing and prevent dampness from affecting the knees. 25 cts.

PLANT STAKES, Tapering, Painted Green

Length	Doz.	100	Length	Doz.	100
2 feet.....	\$0 30	\$2 25	4 feet.....	\$1 25	\$9 50
2 1/2 feet.....	50	3 25	5 feet.....	1 75	14 00
3 feet.....	85	6 00	6 feet.....	2 00	15 50

CANE STAKES

These are light, strong, and durable.

Stained Green	100	100
1 1/2 feet.....	\$0 50	2 1/2 feet..... \$0 80
2 feet.....	65	3 feet..... 1 00

Natural, Heavy. 4 ft., doz. 60 cts., 100 \$3; 5 ft., doz. 75 cts., 100 \$4.50; 6 ft., doz. \$1, 100 \$5.

LABELS, WOOD

Pot—	Painted	100	1,000	Garden—	Painted	100	1,000
4-inch.....	\$0 25	\$2 00		8-inch.....	\$1 00	\$6 00	
4 1/2-inch.....	30	2 10		12-inch.....	1 50	10 00	
5-inch.....	35	2 20		3 1/2-in. Tree,			
6-inch.....	40	2 50		copper wired	35	2 30	

BASKETS

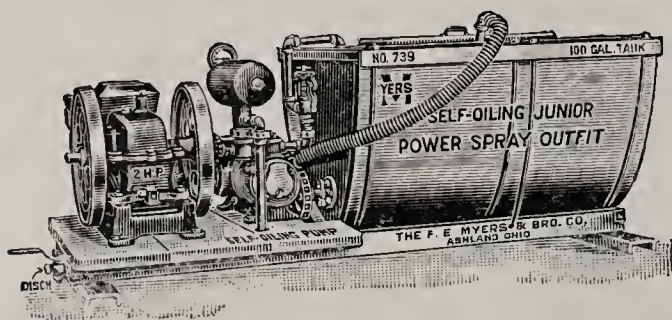
Peach. Per 100, 4-qt., \$6; 8-qt., \$6.25; 16-qt., \$6.50.

Till Baskets. Per 100, 2-qt., \$2; 3-qt., \$2.50; 4-qt., \$3.

Strawberry, Raspberry, and Huckleberry. All \$1 per 100.

Prices for larger quantities on application. A full line of Baskets of every description for Farm and Store use.

THE MYERS SELF-OILING JUNIOR POWER SPRAY OUTFIT—CHAIN-DRIVEN



A new departure in Spray Pumps. Fitted with Myers Self-oiling Bulldozer Pump and tested at 350 pounds. A sand-, dust- and dirt-proof Pump that will run twenty-four hours a day without attention (oils itself). Designed for safety in operation, long life, and economy. All working parts are fully enclosed and run in oil. Bearings accurately fitted in the main frame (quickly removable) and so constructed that they hold the gears and pinions in position. The bearings come in contact with the pinions, wipe the oil from the pinions and carry it through a specially provided groove to the center of the bearings, leading it to the shaft at this point, from which the oil

passes out around the end of shaft and returns to the oil-reservoir, resulting in not only a thoroughly lubricated bearing but a self-cleaning one. Gears are double; pinions are steel; cylinder seamless drawn brass and removable; valve stainless steel balls; bronze valve-seats; plunger double cup leathers, removable as a complete unit. Air-chamber base is fitted with a ball-valve between pump and discharge opening. Holds constant pressure on the gun. Length overall 6 feet, 8 inches.

Equipment: 100-gallon Tank, Bulldozer Pump, No. 1 Myers Spray Gun, 50 feet $\frac{1}{2}$ -inch High-pressure Spray Hose, with fittings, single Cut-off for discharge lines, Pressure Gauge, Rotary Agitator, Pressure Regulating Valve, Strainer and Suction Hose. Price, with 3 H. P. Engine, on application.

MYERS SPRAY-PUMP FITTINGS



Sure-Grip Couplings. For $\frac{1}{2}$ -in. hose, with heavy ribs of sufficient length for power pumps. Complete 55 cts. Female Half, 35 cts.



Sure-Grip Hose Clamps. For $\frac{1}{2}$ -in. power spray-hose. Can't slip off. 25 cts. each



Male End, Extra Long. For $\frac{1}{2}$ -in. hose. 30 cts. each.



Male End, Regular. For $\frac{3}{8}$ -in. hose. 20 cts. each.



Female End, Regular. For $\frac{3}{8}$ -in. hose. 20 cts. each.



Hose Reducer. For $\frac{3}{4}$ -in. hose. $\frac{1}{4}$ -in. pipe. 30 cts. each.

Brass Nipple. $\frac{3}{4}$ -in. 40 cts. each.

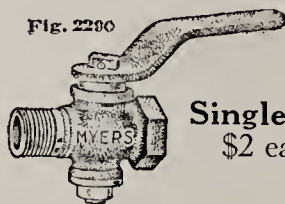
Lever Shut-off Cock. Tapped $\frac{1}{4}$ -in. pipe. \$1 each.



Brass Shut-off Cock. $\frac{1}{4}$ -in. pipe connection. 75 cts. each.

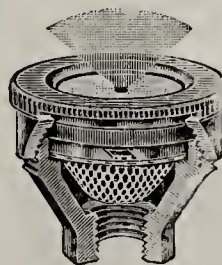
Double Cut-off. $\frac{1}{2}$ -in. \$3.25 each.

Fig. 2200



Single Cut-off. $\frac{1}{2}$ -in. \$2 each.

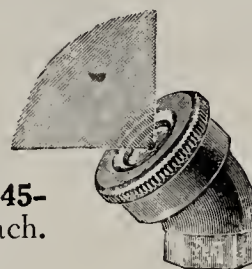
Jumbo Nozzle. A large Spray Nozzle with cone strainer. Delivers a very broad, fine spray with good carrying qualities. 90 cts. each.



Fembro Nozzle, Straight. 65 cts. each.



Fembro Nozzle, 45-degree. 75 cts. each.



Pressure Regulating Valve. For power sprayers. \$8 each.



Pressure Gauges.

100 lbs., $2\frac{1}{2}$ -in. diam. \$1.50.
250 lbs., $2\frac{1}{2}$ -in. diam. \$1.50.
400 lbs., $3\frac{1}{2}$ -in. diam. \$2.50.

Fig. 1721



MYERS PERFECT FOG SPRAY GUN



6 FEET

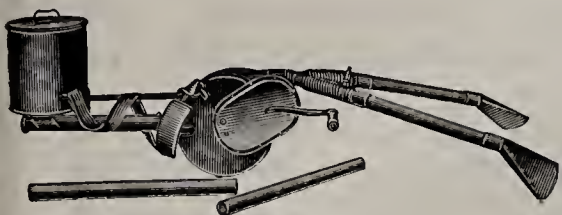
The Myers Perfect Fog Quadruple Spray Gun produces a fine fog spray with long-distance drive, very penetrating and efficient, that carries up to 36 feet, depending on the pressure and size of hole in the spray-discs. Assures complete coverage of both sides of all leaves and blossoms, using the minimum amount of spray mixture. The rod is galvanized steel tubing in three sections, enabling the user to have the benefit of three different lengths, 30-in., 51-in., or 72-in. \$9 each.

MYERS SPRAY GUN



This Gun is made entirely of brass and delivers a long-distance spray reaching the topmost branches of the highest fruit trees. The long-distance spray can be changed instantly to a very broad, penetrating spray for the lower branches, or it can be shut off entirely. This entire range and cut-off is accomplished by a three-quarter turn of the handle. \$6 each.

Hose Swivel for removing all twists in the hose for above Guns. \$1 extra.

**PEERLESS DUSTER**

The Peerless is a perfectly balanced machine—the load is divided front and rear. The hopper containing the material is in the rear of the operator, and the crank is directly in front, allowing a full and free arm movement without straining the shoulder. It can be easily adjusted to any size man. There is a body support attached to a universal joint, permitting the operator to direct the gun to a wide range of action, and allowing the machine to rest in a comfortable position.

The Peerless is adaptable for dusting all ground crops and fruit trees. It has a very complete set of interchangeable parts, and with the metal flexible joints a set-up can easily be made for any job. \$25.

VERMOREL ECLAIR NO. 1 KNAPSACK SPRAYER

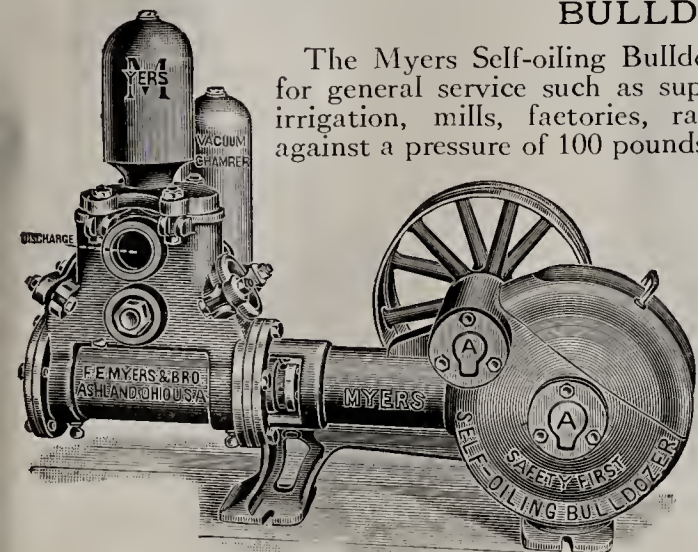
Simple and compact in construction. Reliable and efficient to the highest degree. A small Sprayer that will do a big job, and do it right, with the least effort. No plunger; no complicated mechanism. Makes spraying a pleasure instead of a drudgery. \$14.



Vermorel Knapsack Sprayer

BULLDOZER PUMP

The Myers Self-oiling Bulldozer Pump is made in the largest size, for general service such as supplying water in large quantities for irrigation, mills, factories, railway tanks, stations, villages, etc., against a pressure of 100 pounds or an elevation of 230 feet.



Bulldozer Pump

The power end consists of a one-piece casting which forms the base of the Pump and oil-reservoir, and in connection with a lid encloses all working parts, protecting them from dirt or injury and securing safety of operation. This casting is completely machined at one setting for all bearings, the crosshead, cylinder head and shaft bearings insuring alignment of all working parts. The pinion and gear are mounted between double bearings A—these bearings are renewable. Ask for price.

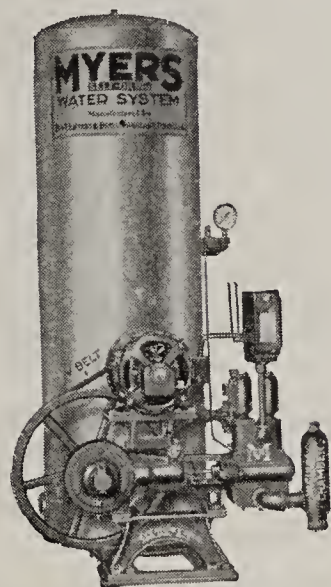
MYERS ELECTRIC HOUSE PUMP (PATENTED)

This Pump is self-oiling, motor-driven, automatically controlled, economical, and efficient. It is designed for operation from any kind of city current or from farm lighting and power systems.

Can be used in cisterns or shallow wells up to 22 feet in depth and is 90 per cent efficient. Has oil-level overflow. Capacity 250 and 300 gallons per hour.

Of all the methods of obtaining water for the home, this one requires the least attention and is economical and highly satisfactory.

Convenient, quiet, safe, sure, it is easily installed and will furnish an abundant water-supply for any home. Either direct or with tank, ask for prices.



Myers Electric House Pump

MARCH AUTOMATIC RAINMAKER

Sprinkles rectangles, not circles. Covers large areas rapidly without overlapping, and is quickly adjusted to water small spaces.

Sprinkles along edge of walks or drives without wetting them.

Ordinary water-pressure from lawn hose turns the pipe-line of nozzles as an axis, throwing the streams of water from one side over to the other with a constant, steady swing.

Thousands in use on city lawns, large estates, golf courses, cemeteries, and parks.

Made in four sizes—Watering from 1200 to 3000 square feet at a setting.

Write for prices and literature.

Niagara Dusts and Spray Materials are guarantees of good crops and salable produce. Insects and fungous diseases must be controlled if men are to live.



March Automatic Rainmaker

Goods delivered without extra charge locally. Orders by mail or telephone receive the same attention as a personal order



NO. 22 BANNER COMPRESSED AIR SPRAYER

This Sprayer is adapted for all spraying purposes. It cannot be excelled for spraying garden vegetables, plants, shrubbery, trees, flower-beds, whitewashing, and disinfecting poultry-houses, stables, cellars. In fact, will spray anything in liquid form and is easily operated by man or boy. Full directions and spraying calendar with each Sprayer. Galvanized \$6. Brass \$9.

MYERS COMPRESSED AIR SPRAYER

The Myers Compressed Air Sprayer is built in two sizes, 2½ and 4¼ gallons capacity

(both over-size), meeting all demands for this style of Sprayer.

The tank is made of heavy galvanized iron or brass and the side walls are double seamed, riveted, and soldered, while the top and bottom are extra-heavy material with flanged edge over which the side walls are turned and thoroughly soldered. It has 1¾-inch brass tube cylinder. The nut is operated by lugs on the lower part of the handle, which engage in opening at the top of the nut. By means of the lugs on the handle the nut can be screwed tightly to the top of the tank, and at the same time lock the plunger in position, and also permits of the tank being carried by the handle when desired.

The 45-degree nozzle and 20-inch brass extension furnished without extra charge are so constructed that the nozzle can be attached to the end of the brass rod or direct to the connection at the end of the hose, giving the advantage of 45-degree discharge either way.

Myers 2½-gal. Compressed Air Sprayer, with 18-inch Extension Rod and Galvanized Tank, \$4.50; 4¼-gal., with Extension Rod and Galvanized Tank, \$5; 4¼-gal., with Extension Rod and Brass Tank, \$8.50.

NO. 339B MYERS PORTABLE SPRAYER

Pump is fitted with cog-gear handle, is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank, held in position by one thumb-screw.

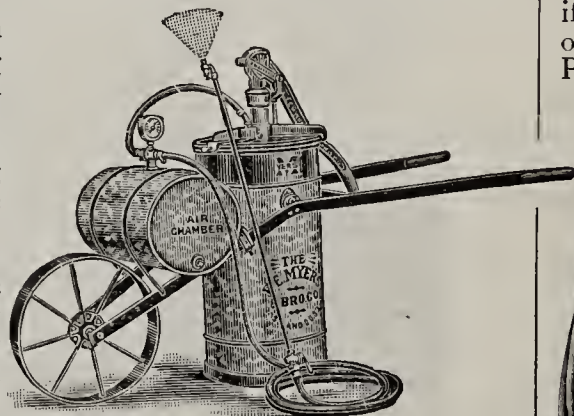
Outfit is complete with dasher agitator, hose, 6-gallon air-chamber, and an 8-foot pipe extension, in two 4-foot parts, which adapts it for spraying large trees and also for use in whitewashing buildings, etc.

The air-chamber assists in keeping up a steady spray with less effort by the operator, and will hold the pressure and continue to spray for several minutes while the operator leaves the pump to cover near-by trees.

Tank is made of heavy galvanized iron thoroughly reinforced at top and bottom by steel bands. 12½-gal. capacity.

The wheel and handles are made of wrought steel thoroughly braced. Wheel is 15½ in. in diameter, with 3-in. tire.

Complete as shown, \$36.



Bucket Spray Pump

MYERS WHITEWASH AND GENERAL-PURPOSE SPRAYER

The tank is made of heavy galvanized iron with a wide bottom so as to sit steady in operation; has both jet and dasher agitators; holds 7 gallons. \$11.



General-Purpose Sprayer

MYERS BUCKET SPRAY PUMP WITH AGITATOR

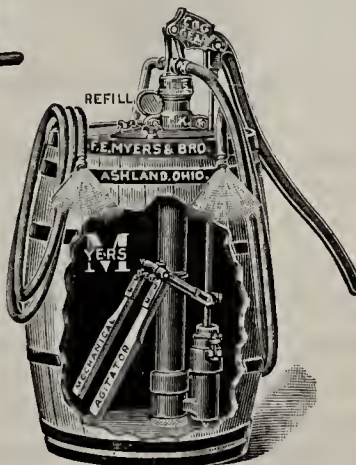
This Spray Pump is constructed entirely of brass, a material that is not affected by the poisonous arsenites used in different formulas for spraying fruit trees, vines and shrubbery. \$3.50.

MYERS DOUBLE-ACTING COG-GEAR COMPLETE SPRAY PUMP OUTFIT R-316B

Mounted on skids with 50-gallon barrel, with pressure gage, one 15-foot lead of ½-inch 7-ply discharge hose, one Fembro nozzle, one 8-foot pipe extension with lever shut-off, and mechanical agitator. Cog-gear movement, increased leverage adapted for spraying under heavy pressure. Capacity sufficient for eight nozzles, adapted for spraying potatoes. \$48.50.

MYERS O. K. COG-GEAR SPRAY PUMP R-308

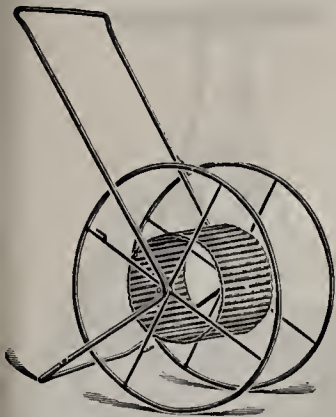
For hot, cold, or any kind of mixture. Sold as a plain Pump, if desired, or with one length of hose, mounted in barrel. Plain Pump, \$19.50.



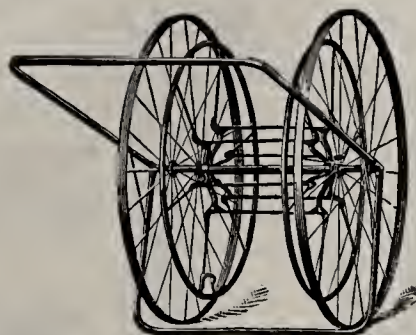
Myers O. K. Spray Pump



Myers Double-Acting Spray Outfit



Steel Hose Reel

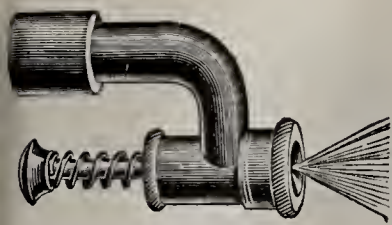


Park Hose Reel

HOSE REELS

Park No. 21. A tubular iron reel and frame, on steel wheels. For parks, lawns, and greenhouses. \$12.

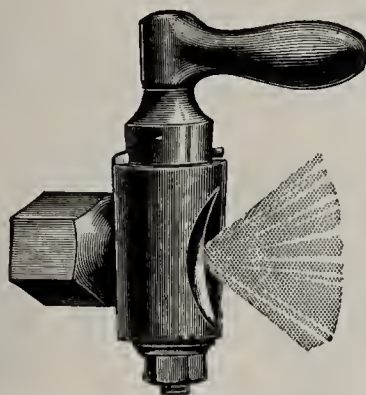
Nos. 10 and 20 Steel Hose Reels. These are practically the same except in size. \$4 and \$4.50.



Vermorel Nozzle



Boston Graduating Nozzle



Bordeaux Nozzle

HOSE NOZZLES

Bordeaux Nozzle. The simplest and best combination spraying Nozzle on the market. It throws a solid stream or a fan-shaped spray, adjustable to any fineness; is readily degorged by turning the cock handle. It will also throw a long-distance coarser spray for spraying very large trees; or it may be shut off altogether—features possessed by no other spray Nozzle. For 1/4-in. pipe. \$1.

Vermorel Nozzle. Very simple in construction and throws a finer spray than any nozzle in use. For 1/4-in. pipe. 75 cts.

Rain King. \$1.50.

Boston Graduating. Throws solid stream or spray. For 3/4-in. hose. 50 cts.

BATES PATTERN WELL CURB

Much used in the suburbs and country villages as the best method for drawing water from wells.

Curb, complete, including rope, chain and bucket. \$32.



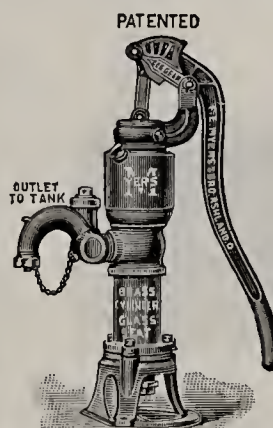
Chain Pump

CUCUMBER WOOD PUMPS

6 feet long.....	\$8 50	10 ft. long...	\$11 50
7 feet long.....	9 25	Pipes, per ft.	30
8 feet long.....	10 00	Couplings...	90

RUBBER-BUCKET CHAIN PUMP

Complete for 10-foot well, \$7. Add 30 cts. for each additional foot beyond 10 ft. Curb \$4.50; chain (3 ft. to lb.), 10 cts. per lb.; wood tubing, 14 cts. per ft.; rubber buckets, 10 cts. each.



House Force and Lift Pump



Myers Cog-Gear Pitcher Pump



Myers Pump No. 5



Myers Pump No. 8

MYERS PUMPS

Anti-Freezing Force

No. 8. For wells under 25 feet. Has a 3 1/2-inch brass-lined cylinder, 4 feet below the platform, fitted with expansion plunger bucket and patent glass valve-seat, tapped for 1 1/2-inch suction pipe. \$14.50.

No. 5. For wells from 25 to 70 feet deep. Capacity, 440 gallons per hour. Has a 3-inch brass-lined lower cylinder, with latest improved glass valve-seat and plunger, capped outside, tapped for 1 1/4-inch pipe. \$15.50.

ANTI-FREEZING CISTERN AND SHALLOW WELL PUMP

With 4-foot set length

No. RS251. Has 3-inch brass-lined cylinder, with glass seat; tapped for 1 1/4-inch pipe. \$11.

HOUSE FORCE AND LIFT

No. R251. Has brass upper and 3-inch brass lower cylinder, with patent glass valve-seat; tapped for 1 1/4-inch suction pipe. \$8.

No. R253. Has brass upper and 3 1/2-inch brass lower cylinder, with patent glass valve-seat; tapped for 1 1/2-inch suction pipe. \$9.50.

THE MYERS COG-GEAR PITCHER PUMP

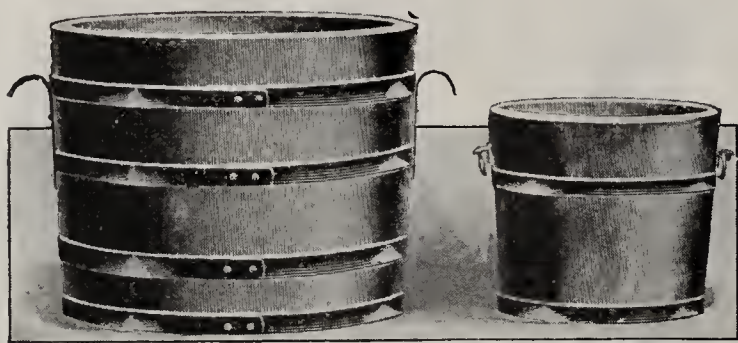
Fitted with Brass Valve-Seat

No. 416. Has 3-inch polished cylinder; tapped for 1 1/4-inch pipe. \$3.50.

No. 418. Has 3 1/2-inch polished cylinder; tapped for 1 1/2-inch pipe. \$4.50.

Nelson. 1 1/4-in. pitcher. \$2.25.

Red Cross. 1 1/4-inch force pump. \$6.



CEDAR PLANT TUBS

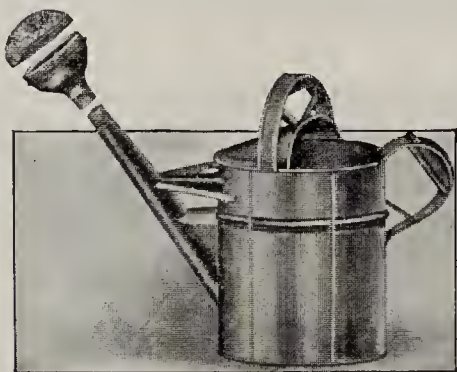
Painted green; strongest and most durable Plant Tub made.

	Top outside	Height outside	Each
No. 1	28 inches	22 inches	\$13 20
No. 2	26 inches	20 inches	11 00
No. 3	24 inches	18½ inches	6 90
No. 4	22 inches	17 inches	5 60
No. 5	20 inches	16 inches	4 70
No. 6	18½ inches	15 inches	3 65
No. 7	16½ inches	14 inches	3 25
No. 8	15½ inches	13 inches	2 75

NEW ENGLAND PLANT TUBS

Made of white pine painted inside and out with linsced-oil paint. Finished on the outside in dark green. Hoops are made from heavy wire electrically welded.

	Inside diam.	Inside depth	Each
No. 1	6 inches	6 inches	\$0 45
No. 2	7 inches	7 inches	50
No. 3	8 inches	8 inches	55
No. 4	9 inches	9 inches	60
No. 5	10 inches	9 inches	75
No. 6	11 inches	10 inches	85
No. 7	12 inches	11 inches	1 00
No. 8	13 inches	12 inches	1 25
No. 9	14 inches	13 inches	1 50
No. 10	15 inches	14 inches	1 60



WATERING POTS

Central Galvanized.

4-quart.	\$0 50	10-quart.	\$0 75
6-quart.	55	12-quart.	85
8-quart.	65	16-quart.	1 00

English Style for Greenhouses.

4-quart.	\$3 50	10-quart.	4 50
6-quart.	3 75	12-quart.	5 00
8-quart.	4 00		

Parlor, Painted.

1-quart.	40	2-quart.	45
Long spout, 4-quart.			1 25
Long spout with rose, 2-quart.			1 00

WATER-BALLAST LAWN ROLLERS

For keeping golf-greens, lawns, and tennis-courts in perfect order these Rollers are invaluable. When the ground is soft they may be used empty, and in dry weather, when all others are useless, they can be filled with water and worked effectually. The advantage of having in one Roller either a heavy or light implement at pleasure must be obvious to everyone.

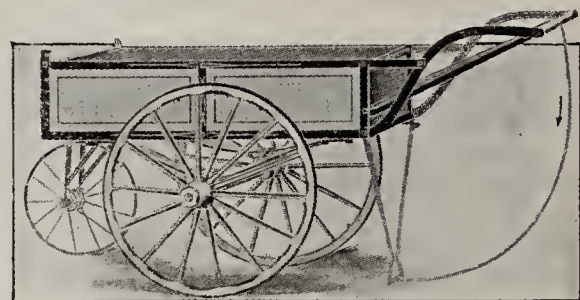
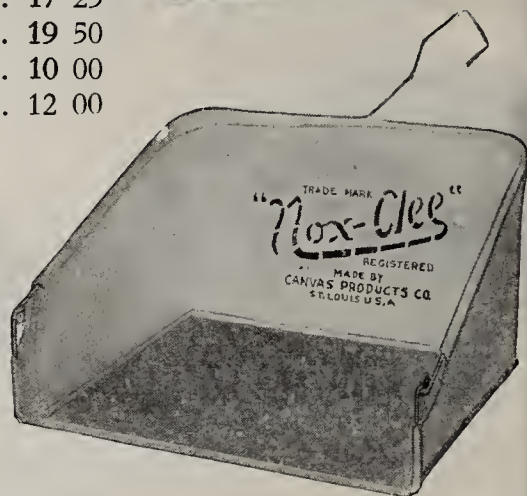
COMBINATION
HANDLE LOCK
AND SCRAPER



No. 601.	148 lbs.	\$12 75
No. 602.	274 lbs.	15 00
No. 603.	418 lbs.	17 25
No. 604.	590 lbs.	19 50
No. 605.	148 lbs.	10 00
No. 606.	274 lbs.	12 00

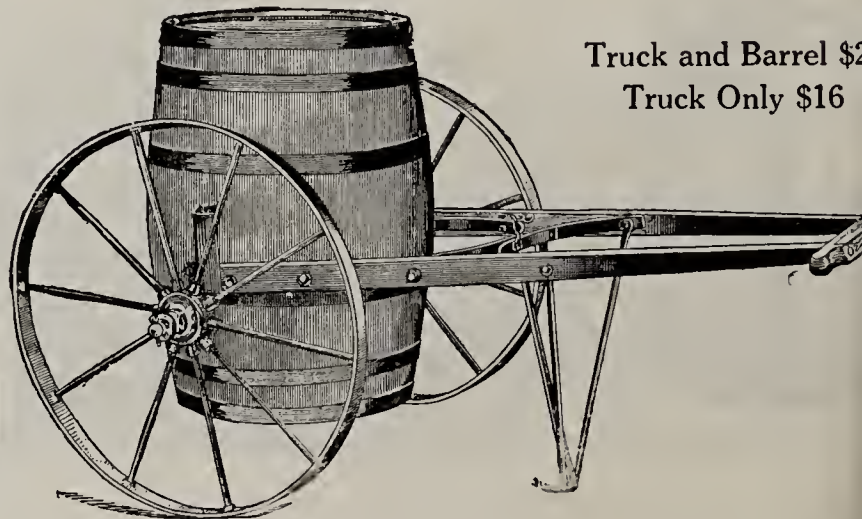
GRASS CATCHER

For all sizes Lawn Mowers; from 85 cts. to \$1.50.

THREE-WHEEL HAND CART
(With springs) No. 43-D

Body 43 inches long, 28½ inches wide, 10 inches deep, outside measurements. \$26.

Ask for specifications and prices of other styles.



Truck and Barrel \$26
Truck Only \$16

SHEARS

Hedge, Border, Pruning, and Grass



French

No. 550

Wood Handle

Sheep

Hand Pruning Shears

Boker, No. 550. 9 in. \$1.
 Boker, No. 578. 9 in. \$1.50.
 Heinisch. 9 in. \$1.25.
 Snapcut. \$1.25.
 Thinning. 50 cts.
 Wood Handle. \$1 to \$2.50.
 Rose. \$1.50.
 French. \$1.75 to \$2.
 Sheep. 50 cts. to \$1.



Border Shears

Lee's

Hedge Shears 101

Hedge Shears

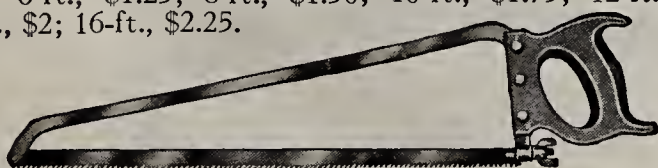
No. 101. 8-in., \$2; 9-in., \$2.25.
 Heinisch, Wood Handle. 9-in., \$3.
 Heinisch, Metal Handle. 9-in., \$3.25.

Border Shears

No. 105. 9-in., \$3.50; with wheel.
 No. 104. 9-in., \$3.25; without wheel.
 No. 1062. \$3.50.

Long-Handled Pruning Shears

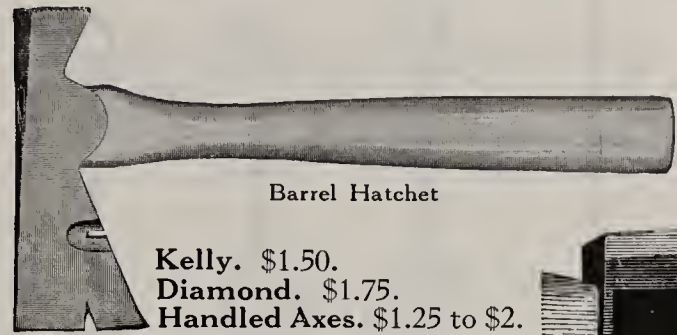
Lee's. 6-ft., \$1.25; 8-ft., \$1.50; 10-ft., \$1.75; 12-ft., \$1.85;
 14-ft., \$2; 16-ft., \$2.25.



Pruning Saw

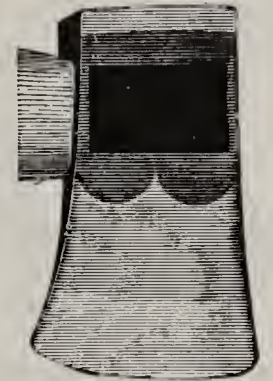
SAWS

Cross-Cut, Two-Man, Simonds'. Filed and set ready for use.
 5-ft., \$5.50; 5½-ft., \$6. Handles, 75 cts. per pair.
 Cross-Cut, One-Man, Simonds'. With supplementary
 handles. 3-ft., \$2.50; 3½-ft., \$3.
 Pruning. \$2 to \$2.25.



Barrel Hatchet

Kelly. \$1.50.
 Diamond. \$1.75.
 Handled Axes. \$1.25 to \$2.
 Ice Hatchet. \$3.50.
 Barrel Hatchet. \$1.35.



Axe

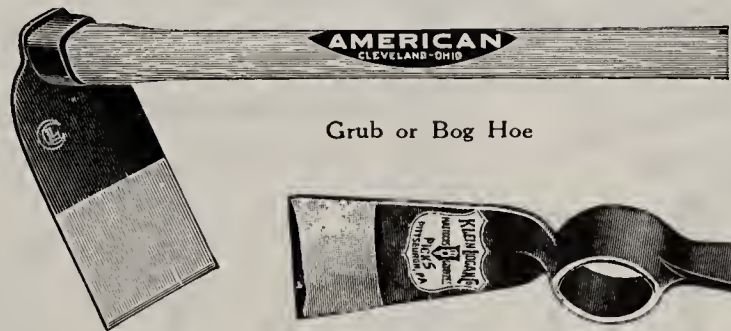
AXES

Our sales of Axes are quite an item in our business, and for years we have been known as headquarters for them. We carry all grades, but make a specialty of the best.



PICKAXES

Railroad, Flat One End. \$1.
 Contractors', Double-point. \$1.25.



Grub or Bog Hoe

MATTOCKS

Long Cutter. \$1.
 Pick, One End. \$1.
 Grub or Bog Hoe. Wide. \$1.50.

PLANET JR. TROWEL

Everyone who has used a trowel that bent at the neck as soon as a little pressure was exerted appreciates owning one that is guaranteed never to bend or break. And everyone who has bought a heavy, clumsy trowel to overcome this weakness is delighted with the lightness of the Planet Jr. 70 cts.

BULB or TRANSPLANTING TROWEL

Has three notches, 3, 4, and 5 inches from the Planet Jr. point to help you plant your bulbs at a uniform depth. 70 cts.



Planet Jr. Trowel



Bulb Trowel

VARIOUS TROWELS

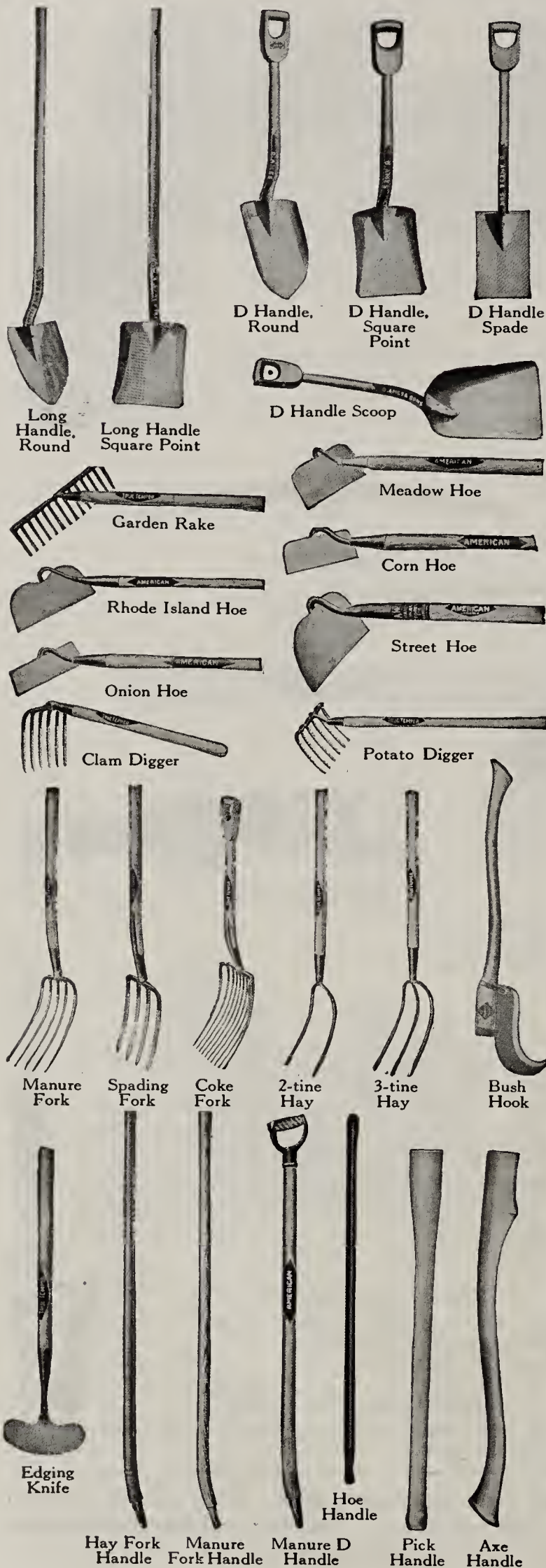
Johnson. Hollow shank. 6 inches. 30 cts.
 Kingsbury. All metal. 25 cts.
 American. 65 cts.

HOLE-IN JR. TOOL

Ideal for transplanting. Makes a clean, flat-bottomed hole. No air-pockets. 50 cts.



Good tools make easy work. They can be given a good edge and keep it. Inferior tools are always more bother than they are worth.



STEEL GOODS

Our department in this line is one of the largest in New England and embraces a much larger variety than shown in this catalogue. We are jobbers as well as retailers, and you can depend on quality as well as reasonable prices.

SHOVELS

Long Handle, Round Point.	Each	D Handle Spade.	Each
Ames.....	\$1 80	Ames.....	\$1 80
What Cheer.....	1 20	What Cheer.....	1 25
Bissell.....	90	Bissell.....	90
Long Handle, Square Point.		D Handle Scoops.	
Ames.....	1 80	Ames, No. 2 Polished.....	1 95
What Cheer.....	1 20	No. 3.....	2 00
Bissell.....	90	No. 4.....	2 05
D Handle, Round Point.		No. 5.....	2 10
Ames.....	1 80	No. 6.....	2 15
What Cheer.....	1 20	No. 7.....	2 20
Bissell.....	90	Sanderson's, No. 2 Black..	1 35
D Handle, Square Point.		No. 3.....	1 45
Ames.....	1 80	No. 4.....	1 55
What Cheer.....	1 20	No. 5.....	1 65
Bissell.....	90	No. 6.....	1 75
		No. 7.....	1 85

GARDEN RAKES

10-tooth, 90 cts.; 12-tooth, 90 cts.; 14-tooth, 90 cts.; 16-tooth, \$1; 18-tooth, \$1.10.

HOES

Rhode Island Pattern. All sizes. 90 cts. to \$1.10.
Meadow Pattern. All sizes. 90 cts. to \$1.10.
Corn. 90 cts. and \$1.
Onion. 85 cts. and 95 cts.
Stable, \$1.25; Street, \$1.25.
Clam Digger. R. I. Pattern. \$1.25.
Potato Digger. 6-tine, \$1.20.

FORKS

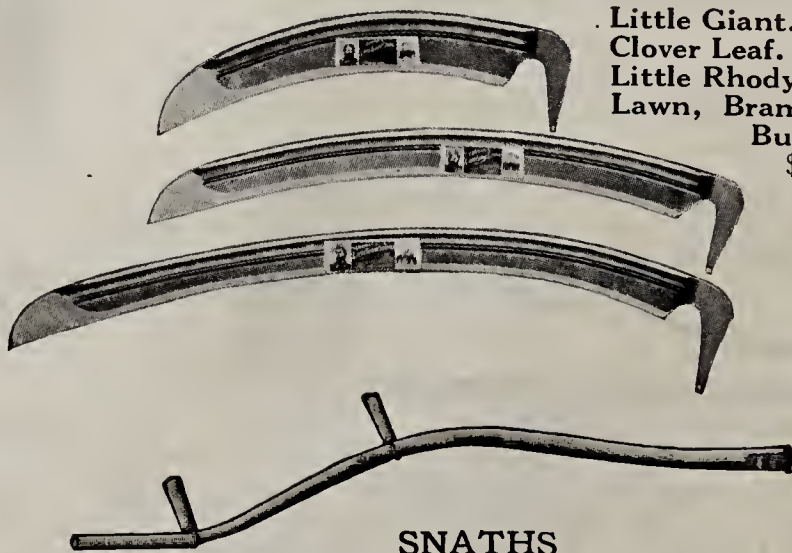
Manure, D Handle. 4-tine, \$1.20; 5-tine, \$1.35; 6-tine, \$1.50.
Spading, D Handle. Diamond Back. 80 cts. to \$1.75.
Coke, D Handle. \$2 to \$4.
Hay, 2-tine. \$1 to \$1.30.
Hay, 3-tine. \$1 to \$1.35.
Bush Hook, Collins'. \$1.50.
Edging Knife. \$1 to \$1.15.

HANDLES

Hay Fork. 25 cts. to \$2.
Manure Fork, Long. 45 cts.
Manure Fork, D Handle. 60 cts.
Hoe. 25 cts.
Pick. Oak and walnut. 40 cts.
Axe. Many styles. 40 to 50 cts.
Also a full line of other Handles that go with our business

SCYTHES

We have a reputation for selling the best grade of Scythes on the market.



Little Giant. \$2.
Clover Leaf. \$1.50.
Little Rhody. \$1.75.
Lawn, Bramble, and Bush. \$1.75 to \$2.

SNATHS

The celebrated swing-socket.

Grass, Ash. \$1.40.

Bush, Ash. \$1.60.




TAMPING BAR
 Made different weights and sizes.
 8 in.....\$1.75
 10 in.....2.00



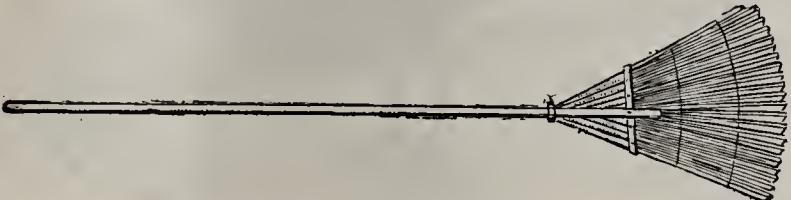
BEETLES
 For contractors' use. \$4.50.

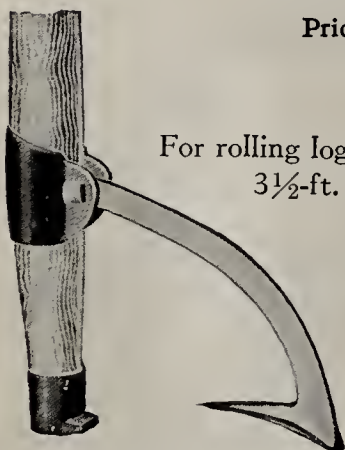


LOCK-LEVER POST-HOLE DIGGER
 Enjoys a reputation unequalled by any other Digger on the market, because of its lightness, ease of manipulation, simplicity and solidity of construction, best material, workmanship and finish. Any boy can operate this Digger. The increasing demand for the Lock-Lever Digger and the letters of commendation received, are sufficient proof that our statement is correct. 3 ft. \$2, 4 ft. \$2.25.

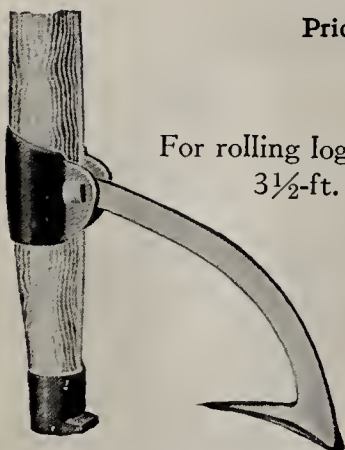


Post-Hole Digger






LAWN BROOMS
 Price, 25 cts. to \$1.25



CANT-HOOK
 For rolling logs and poles. With 3-ft. handles, \$1.75; 3½-ft. \$2.



GRASS HOOKS
 Price, 25 cts. to \$1.50



LEVINES HOTBED MATS
 Made expressly for winter covering of hotbeds, coldframes, plants, and seeds of all kinds. Will not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have been in practical use for years. 76 x 84 in. Burlap both sides, \$3; canvas and burlap, \$3.50; canvas both sides, \$4.



ACME SPRAYER
 This Sprayer is adapted for all kinds of insect-killing and spraying purposes. It is a great saving of labor, and also a great saving of liquids, as the spray is as fine as mist and adheres to the plant. Used by stock-raisers for keeping flies from cattle and horses during the summer months. 50 cts.



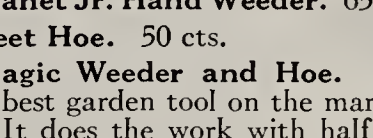
WOODASON BELLOWS
 These are the best-made Bellows; will last a long time and are very strong and durable. \$2.75.




WEEDERS
 Planet Jr. Weeder




Beet Hoe




Planet Jr. Hand Weeder. 65 cts.
Beet Hoe. 50 cts.




Magic Weeder and Hoe. The best garden tool on the market. It does the work with half the labor, saving both time and strength. 50 cts.



Magic Weeder



NORCROSS HAND GARDEN CULTIVATOR
 Its work equals that of the highest-priced wheel plow on the market. With its low price, it sells to those who have but a small home-garden. It is made of first-class material, the shovels forged from steel prongs. It can be entirely taken apart, every part being detachable. Three sizes, 40 cts., 65 cts., and 85 cts.



MOUNTED GRINDSTONE
 Wood Frame, 24 inches.....\$22 50
 Wood Frame, 26 inches.....25 00
 Wood Frame, 28 inches.....27 75
 Bicycle.....10 00

UNMOUNTED
 Nova Scotia. 22 x 2½-in.....\$8 40
 Nova Scotia. 24 x 2½-in.....10 00
 Nova Scotia. 28 x 3-in.....16 30

We carry a complete line of grinders, rifles, and scythe stones for sharpening all kinds of farm tools.



STEWART NO. 10 CLIPPING MACHINE

The new, improved Stewart No. 10 Ball-bearing Clipping Machine is the best hand-power Clipping Machine ever made. It has larger gears and a big balance fly-wheel for smoother, easier turning. This new improved machine is more sturdily constructed throughout, easier to use, and faster clipping than any other hand-power Clipping Machine ever made. The instant the crank of the No. 10 is started the lively action of the balance fly-wheel keeps up the work. A gentle pull on the crank starts the fly-wheel spinning and turning the gears. It is fitted with ball-bearings and has the latest Stewart Clipping Head. \$15. Extra Blades, bottom, \$1.75; top, \$1.25.

STEWART "CLIPMASTER" ELECTRIC CLIPPING MACHINE FOR CATTLE

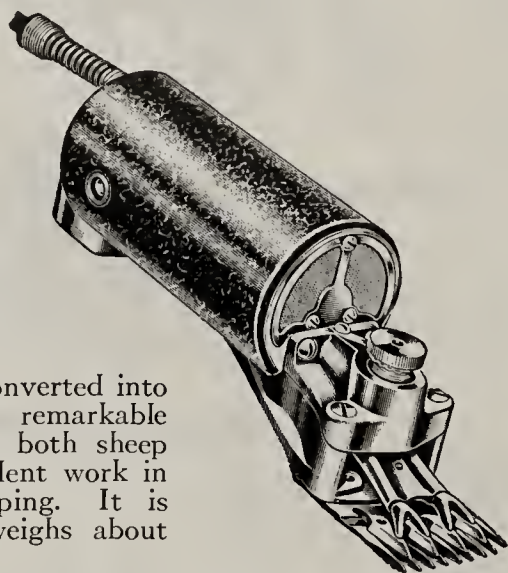


The latest, fastest, finest, and most economical electric Animal Clipper ever invented. The Clipmaster has a Universal motor which operates on any 110-120-volt current, either direct or alternating. Equipped with 25 feet of long-test rubber-covered cord to enable clipping throughout the stable without

moving the animal. The Clipmaster is light in weight, and easy to use in tight places. Clipping up high or down low, it's all the same with the hand-fitting Clipmaster. Fits the hand perfectly. All interior moving parts are packed in special lubricant requiring no attention for at least a year. With built-on Aluminum Handle, \$18; with Leather Strap Handle, \$17. Extra Blades, bottom, \$1.75; top, \$1.25.

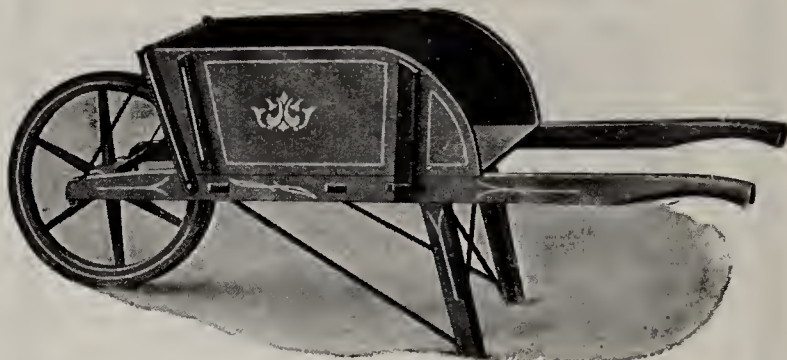
STEWART SHEARMASTER

The Shearmaster is designed especially for shearing flocks of sheep or goats up to 200 head, and is a truly one-man machine, economical to use and is fast and smooth-running. By changing the bottom plate it can be converted into a clipping machine—a remarkable advantage for owners of both sheep and cattle. It does excellent work in both shearing and clipping. It is covered with felt and weighs about 7 pounds.



Equipped with one set of shearing-plates only.
Price, with Universal Motor for 110-120 volts, \$19.75.
Bottom Clipping Plate for above. \$1.50 extra.
Extra Top-shearing Cutters. 30 cts. each.
Extra Bottom-shearing Comb. 75 cts. each.

WHEELBARROWS



Garden Wheelbarrow

GARDEN WHEELBARROWS

A good strong Barrow for everyday use.

No. 64.....	\$6 50	Boy's	\$5 50
No. 65.....	7 25	No. 64, Wide-wheel ..	7 50
No. 66.....	8 50		



Steel-Tray Barrow

STEEL-TRAY BARROWS

No. C3½, Syracuse.....	\$7 00
No. M-3.....	6 00
No. M-4.....	6 50
T-6.....	7 00
Middy.....	4 25

STONE BOAT

Well made of seasoned oak, with iron head. 2-horse size, \$10.
Steel Head, 34-in., \$5.25.

POST-HOLE AUGERS AND SPOONS

8-inch Auger.....	\$2 25
Drive-Pipe Auger.....	2 00
Post-hole Spoons	
6-ft.....	3 25
8-ft.....	3 75
10-ft.....	4 00
12-ft.....	4 25

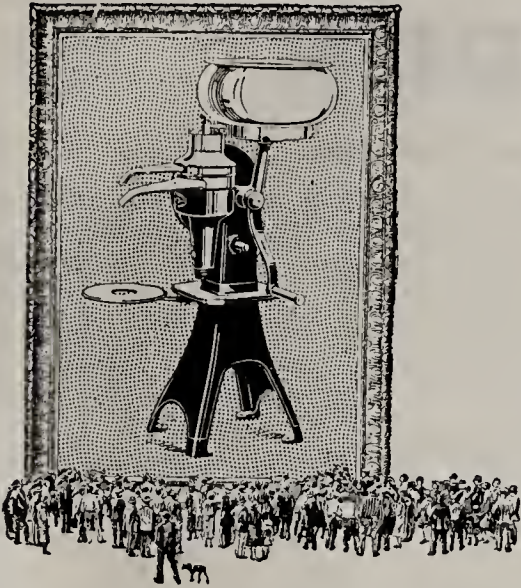
Animal	TRAPS	
No. 0.....		20
No. 1.....		25
No. 1½.....		35



STEEL ROAD SCRAPERS

With Runners

No. 1. Capacity 7 cu. ft. \$9.	No. 2. Capacity 5 cu. ft....	\$8 50
No. 3. Capacity 3 cu. ft.....		8 00



McCORMICK-DEERING CREAM SEPARATORS

The new McCormick-Deering with four ball bearings is not only a step forward in providing easy turning so long desired, but it also provides a machine that a woman, or even a child, can operate with ease. If you desire the utmost in Separators, long life, easy turning, close skimming, etc., insist on the McCormick-Deering.

No. 2. Capacity 450 lbs.....	\$88 00
No. 3. Capacity 650 lbs.....	98 00
No. 4. Capacity 850 lbs.....	108 00

Prices of larger sizes on application.

MOTOR DRIVE, \$46.75



DE LAVAL CREAM SEPARATOR

The De Laval Cream Separator constitutes the best-known means for separating cream from milk.

Briefly stated, the process of centrifugal separation consists in passing the milk through a mechanically operated and rapidly revolved steel bowl, the inflow and discharge being continuous and the separation practically instantaneous—with all of the advantages and none of the disadvantages of gravity setting or other skimming of milk.

No. 10 (capacity 350 lbs.),	\$92.50.
No. 12 (capacity 500 lbs.),	\$100. Larger sizes for creamery and factory.

MOTOR DRIVE, \$55

THE LOUDEN MILKING-STOOL



An all-metal Stool with comfortable concave seat and three sturdy legs, flared to give good footing and double-riveted to the seat. Legs are made of 3/16 x 1 1/4-inch steel bars and are heavily riveted to a 1/4 x 7/8-inch circular brace-bar. Finished with gray enamel.

It's a mighty good Stool, heavily built, thoroughly put together, sanitary, and easy to keep clean. \$1.

DAIRY DISINFECTANTS

- HEXOLIS. Tar Products Corporation. Gal., \$2.
- Sherwin-Williams 50% Cresol Solution. Gal., \$1.50.
- Dow-B T B Disinfectant. 2 1/2-lb. can, \$3.50.

Any of the above three are approved and recognized by the Rhode Island Department of Agriculture in meeting the provisions of Rule 7 in the application and agreement for the control of Bovine Tuberculosis in herds under state and federal supervision in Rhode Island.



A pure sodium hypochlorite, the harmlessness and efficiency of which is well known to most scientists and health officials. It contains no poison or acid. *B-K performs* three distinct functions: It has a *solvent, cleansing action*; it *destroys bacteria and infectious organisms*; it is a *powerful deodorant*. Use clean water and B-K only; put nothing else in the rinse water. 10 ozs. 50 cts., qt. 90 cts., gal. \$2, 5 gals. \$8.50.

Dr. Hess & Clark Dairy Rinse. A concentrated form of Hypochlorate in powder. 6 ozs. (makes 170 gals. rinse), \$1; lb. (makes 453 gals. rinse), \$2.

DR. H. W. NAYLOR'S VETERINARY PRODUCTS

- | | |
|--|--------|
| Medicated Wax Teat Dilators. 1-doz. jar..... | \$0 50 |
| 3-doz. jar | 1 00 |
| Stop-a-leak. For leaky teats..... | 1 00 |
| Udder Balm. For caked udders..... | 65 |
| Udder Balm. Liquid..... | 1 00 |
| Cleralac. For garget..... | 65 |
| Huffene. For hoof-rot..... | 1 00 |
| Direne. For diarrhea..... | 75 |
| Antiseptic Balm. For cuts, etc..... | 50 |

DR. A. C. DANIEL'S VETERINARY REMEDIES

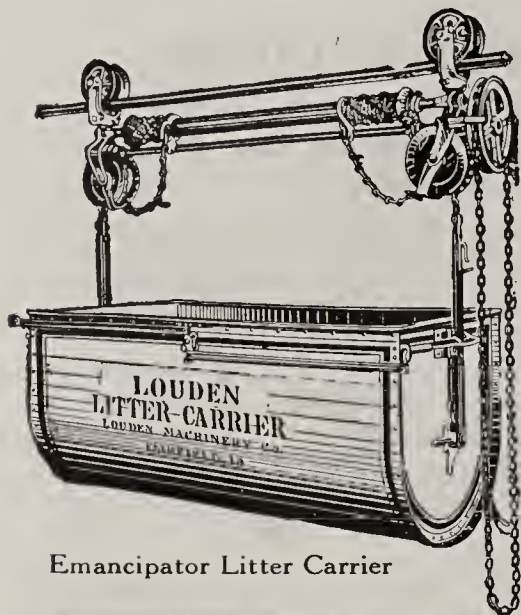
- | | |
|--|------------------|
| Cow Tonic..... | \$0 60 |
| Anti-Scours..... | 1 00 |
| Udder Cream..... | 60 |
| Horse Conditioner..... | 65 |
| Lice Powder..... | 30 |
| Colic Drops..... | 1 30 |
| Rget. For garget..... | 60 |
| C. C. & F. Drops. For colds, fevers, etc. | 65 cts. and 1 30 |
| Wonder Lotion. For cuts | 65 |

OUR HUSBAND'S VETERINARY PRODUCTS

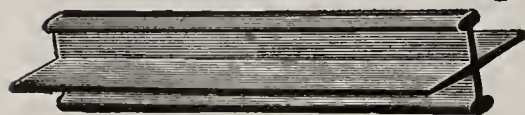
- | | |
|-------------------------------|--------------------|
| Kow Kare. Cow tonic..... | 65 cts. and \$1 25 |
| Bag Balm. For caked bags..... | 60 |
| Grange Garget Cure..... | 65 |

MISCELLANEOUS VETERINARY PRODUCTS

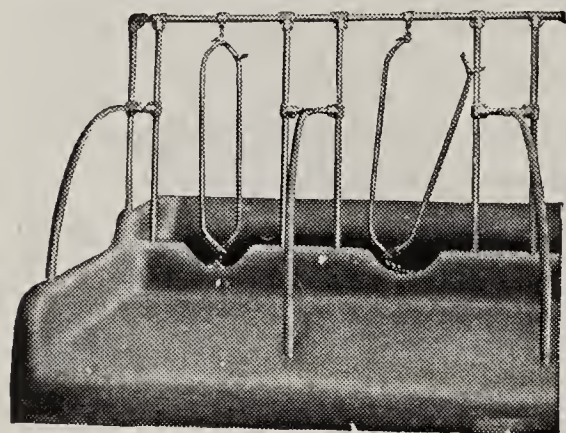
- Udder Health (General Laboratories product). Tube 60 cts.
- Udder Balm (Dr. Hess & Clark product). Box 50 cts.
- Wool Fat (North Star). For cuts, sores, etc. 1/2lb. 50 cts., lb. \$1.
- Dr. Hess & Clark Fly Spray. 1-gal. can \$1.75.
- Lewsi Fly Spray. 1-gal. can \$1.



Emancipator Litter Carrier



Double-Bead Steel Track



Steel Stall



Louden Garage Door Hanger



Buckley's Watering Device

BUCKLEY'S PATENT WATERING DEVICE FOR WATERING STOCK IN STABLE

Water in the Stable is a Necessity

It has come to be regarded as a matter of necessity for the proper care of stock, while in the stable, that they should have constant access to water of suitable temperature. The Buckley process shows the most practical method of having it. **Complete, \$3.**

LOUDEN

EMANCIPATOR LITTER CARRIER

Takes out the equal of five wheelbarrow loads of manure at a single trip—takes it clean without spilling or dripping—carries it clear away from the door—dumps the entire load into manure-pit or manure-spreader. It will save you more hard, disagreeable work than any implement about the place. The 10-bushel tub is let down close to the floor where even a 12-year-old boy can shovel the manure quickly and easily into it. He gives the carrier a little shove as he goes without putting the shovel aside. The big tub is loaded almost as quickly as a wheelbarrow carrying only a fifth as much. The same heavy double-bead track is used with the Litter Carrier that has been used for many years in connection with Louden Hay Carriers.

LOUDEN STEEL STALLS AND STANCHIONS

Milk and misery don't go together. The Louden Swinging Tubular Steel Stanchion gives the cow pasture-comfort. In a Louden Stanchion she can turn around to card herself—she can lie down with her head tucked against the side of her body, just as she sleeps out in a June pasture. Farmers who have used them say that cows will pay for the *complete steel stalls and stanchions* in two years out of the *extra production* the pasture-comfort makes possible.

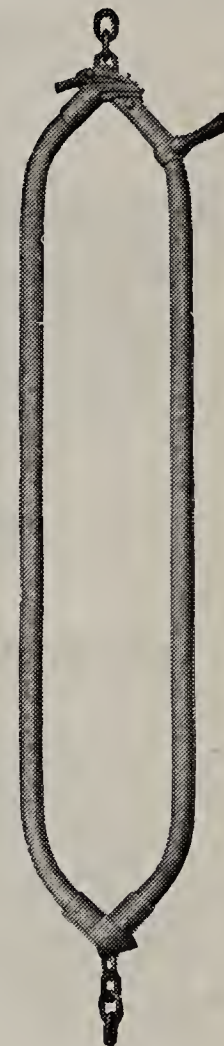
LOUDEN DETACHABLE WATER-BOWLS

Give the cows a fresh drink any time day or night when they want it, and as much as they want. A cow must drink $4\frac{1}{2}$ gallons of water for every gallon of milk she produces. The winter slump in milk production is in large measure due to the cows not getting enough water to drink. Louden Water-Bowls also do away with that disagreeable chore of having to turn the cows out to water once or twice a day no matter how disagreeable the weather may be. A Massachusetts dairyman got a 40 per cent increase in milk production last January, February, and March after installing the Water-Bowls. You can add \$3 a month to your milk-check for each cow milked during the winter, by simply installing Louden Water-Bowls.

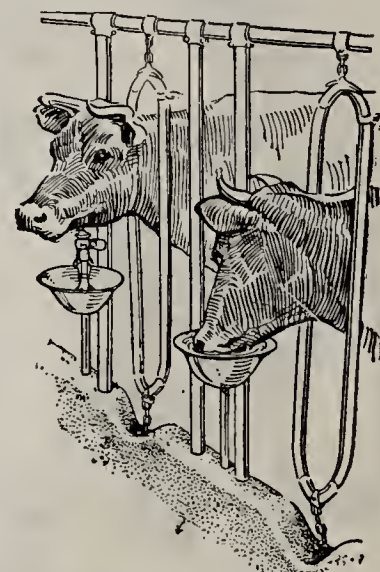
LOUDEN GARAGE DOOR HANGER

Absolutely the handiest and most economical Garage Door Hanger made. Door slides around corner on inside, taking up very little room. First section of door forms a foot door. Outfits are complete with track, roller-bearing trolleys, hinges, stay rollers, screws, and nails. Made for 6-, 8-, 10-, or 12-foot doors. Anyone can install it.

The Louden representative will be pleased to call on you, and give figures for the Louden Line



Louden Tubular Steel Stanchion



Detachable Water-Bowls

CRUMB'S CHAIN HANGING WOOD STANCHION

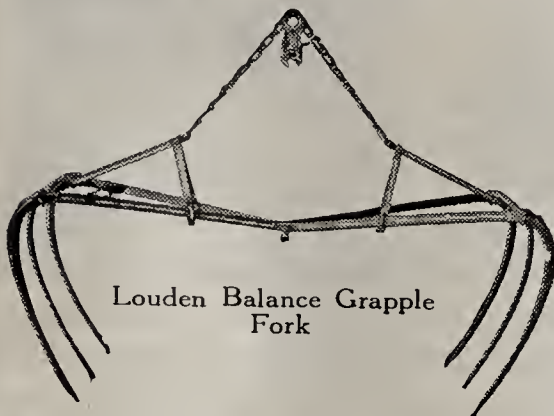
(Not shown)

This device is made from thoroughly seasoned hard wood, framed and bolted together in the most substantial manner. At its opposite ends chains are attached by which it is suspended from the top beam of the stall-frame, and secured thereto by a chain of sufficient length to allow it a free and easy motion in all directions. Sole agents for Rhode Island. **\$2.50.**

Louden Hay Tools Get the Hay in While the Sun Shines

LOUDEN SENIOR HAY CARRIER

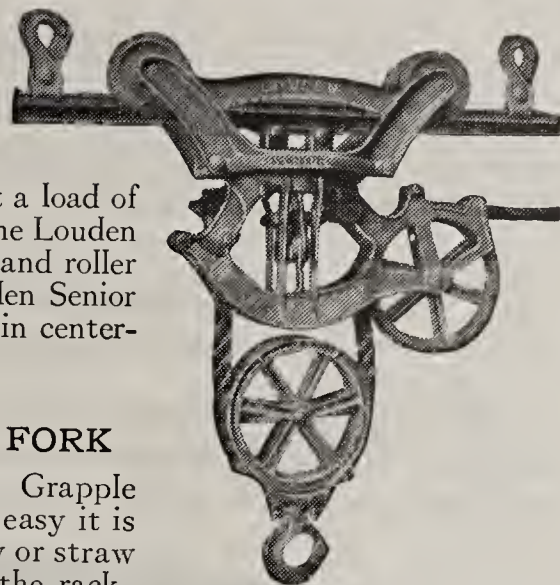
The Louden Senior Hay Carrier is a sturdy, dependable carrier built to safely lift a load of 1,500 pounds—a good deal more than would ever stick to even such a greedy fork as the Louden Balance Grapple shown below. The rope wheel and pulley are 7 inches in diameter and roller bearing. This makes the draft easier and gives longer wear to the rope. The Louden Senior Carrier is reversible so that it can be used in center-drive or end-hoist barns.



Louden Balance Grapple Fork

LOUDEN BALANCE GRAPPLE FORK

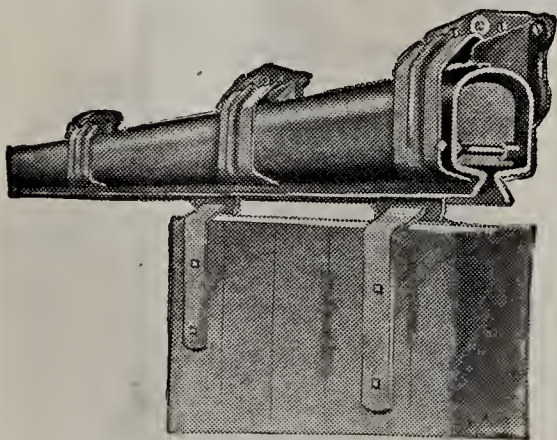
Unless you have actually used a Louden Grapple Fork, it will be hard to convince you of how easy it is to set, what enormous loads of all kinds of hay or straw it takes up, how clean it takes the hay off the rack, how little it spills. No special care is required in loading the hay—the Balance Grapple Fork clinches its wide-spread steel tines about a big load of hay and mows it away. The fork comes down open, a 12-year-old boy can guide it to the next “bite” as it comes down, then a step on each end to ram it into the load—a snap of the latch, and you are all ready for another pull.



Louden Senior Hay Carrier

LOUDEN SINGLE DRUM POWER HOIST

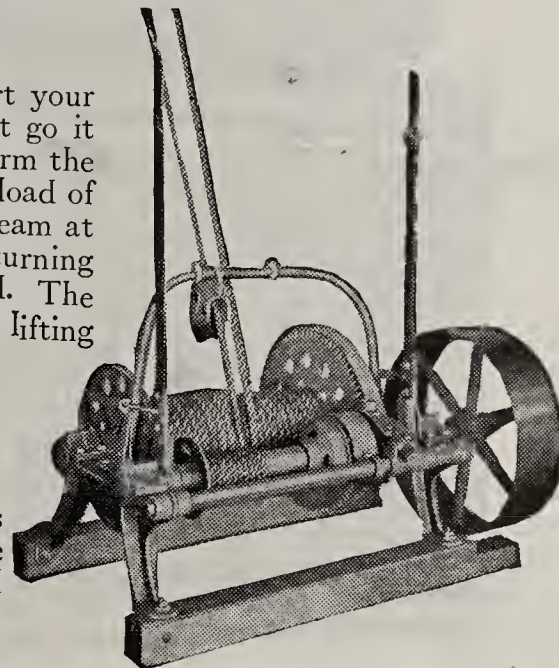
Belt it up with your tractor or any engine of 4 horse-power or more, and start your engine. Nothing happens at the hoist until you pull a lever—the moment you let go it springs into neutral—you can't forget to make it safe. Hard maple conical blocks form the clutch. Pull the main lever and your clutch takes hold gradually but surely. Your load of hay goes up as fast as a team could take it—the hoist takes the place of an extra team at haying-time. To return, work the other lever—it is much quicker and easier than turning a horse or team around and wasting your strength pulling the carrier back by hand. The hoist, besides taking the place of a team at harvest-time, is mighty handy for heavy lifting of all kinds. The big brake holds the load securely at any point desired.



Bird-Proof Barn-Door Hanger

LOUDEN BIRD-PROOF BARN DOOR HANGERS

Note the straight sides and flared-out lips of the Bird-proof Barn Door Track at the left. They give this track a strength and durability not usually found in closed tracks. Note also that the track is flexibly hung from big sturdy brackets. This flexible hanging permits the door to climb ice or trash without damaging the track or hangers. In fact the door could be swung outward and upward until it stood upside down on the track without any damage to the door, trolleys, or track. There are four roller-bearing wheels for each door, making even the heaviest door roll remarkably easy.



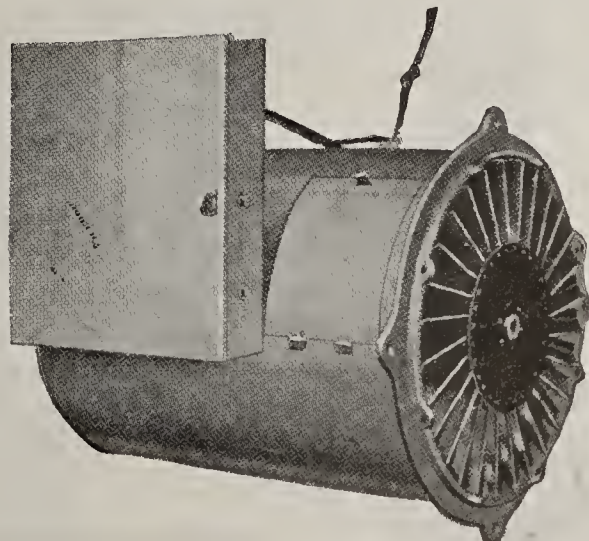
Louden Single Drum Power Hoist

LOUDEN ELECTRIC VENTILATION

Automatically maintains stable temperature by reducing air-flow in cold weather

Louden now announces the first practical system of electric ventilation for stables ever developed. This method may be used in preference to natural-draft ventilation where electricity is available. It is quicker acting and controls the temperature between closer limits than is possible by the natural-draft method. Previously attempted methods of electric ventilation have been unsuccessful because of motors overheating and burning out, due to increases in the air-pressure on the fans. The Louden fan cannot overheat its motor, due to two stages of air-flow control. With others, the motor either runs full speed or is entirely shut off.

Full description of this new system will be sent on application



HAND BOTTLE FILLER No. 1

This filler is used by the larger dairy plants for filling special orders of cream, baby milk, etc., and by the dairy farmer and small dealer for their entire output. Equipped with overflow valve. \$10 each.

BESTOV TUBULAR COOLERS

COOL YOUR MILK IN A BUSINESS-LIKE WAY

The progressive, business-like dairyman today is using a small, tubular Bestov Milk Cooler, built like the bigger ones found in every creamery or milk plant. With such equipment he rapidly chills and aerates the milk as fast as it is received from the barn.

There is no waste of cold water or ice and no waste of time. Bestov Tubular Coolers extract all the heat from the milk while it flows over the tubes from the top trough to the bottom. The milk comes off the Cooler within one or two degrees of the temperature of the water circulated through the tubes. When milking is over, the Bestov Cooler is easily and quickly cleaned, ready for use again. No time is wasted; no milk is lost.

You can hang a Bestov Cooler on the wall where it will take up little space or you can obtain a stand for it so that you can rig it up any place where you can get water to it.

FULL-LENGTH TUBE VERTICAL BOILER

This type of Boiler is especially desirable where space is limited. Being easily handled and a quick steamer, it is very popular and it is extensively used in creameries and milk plants.

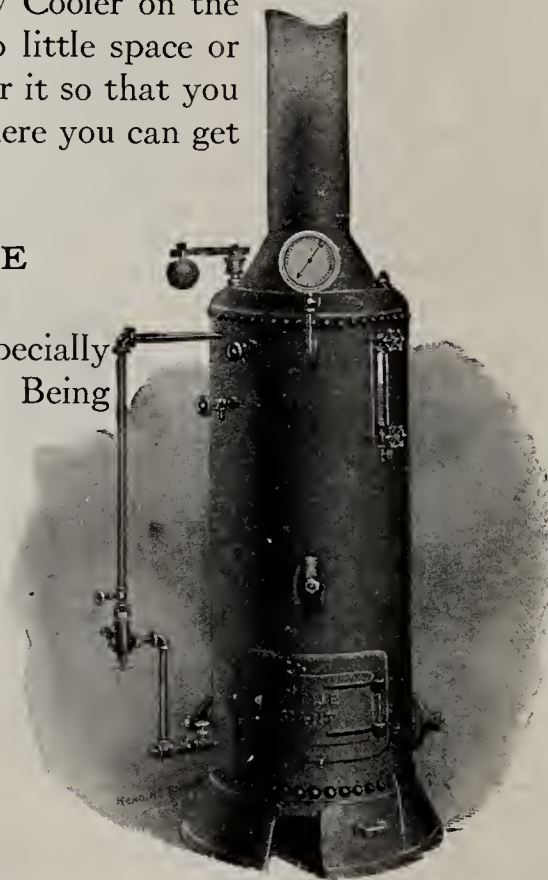
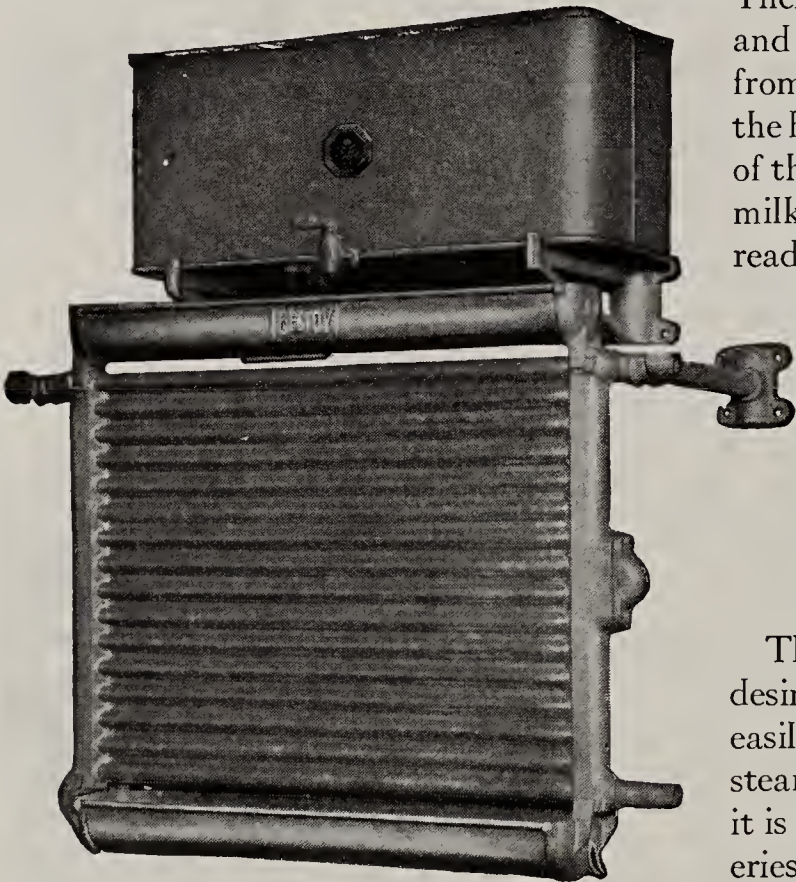
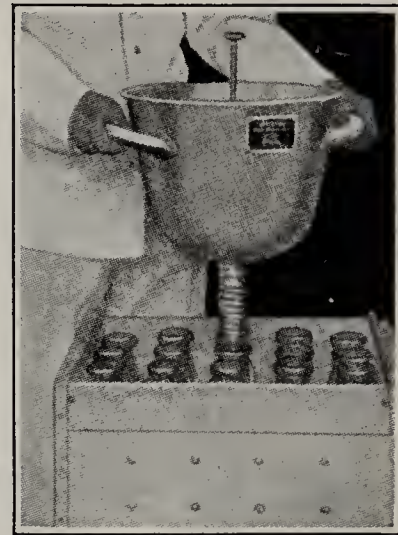
THATCHER SUPERIOR MILK BOTTLES

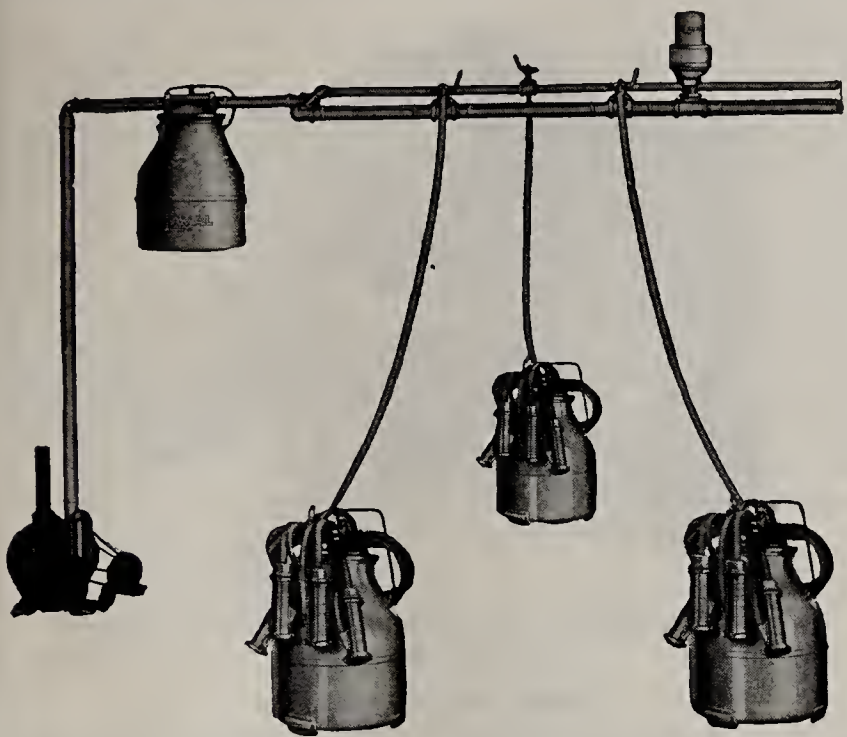
These quality Milk Bottles are made to stand the rough handling of everyday usage. Made of best flint glass and annealed in specially designed lehrs, insuring maximum strength. Quarts, 90 cts. per doz., \$4 per 1/2 gross, \$7.75 per gross; pints, 75 cts. per doz., \$3.25 per 1/2 gross, \$6 per gross; 1/2 pts., 55 cts. per doz., \$2.75 per 1/2 gross, \$5 per gross.

**PIQUALITY MILK BOTTLE CAPS**

"Piquality" means that nothing but the best of materials is used in the manufacture of Piquality Caps. We carry in stock the several different kinds of Bottle Caps necessary to conform both to the state laws and to city ordinances governing the same. 50 cts. per 1000, \$2.25 per 5000.

Get our price on BOTTLE CAPS printed with your own design; it costs but little more and protects you





DE LAVAL MAGNETIC MILKER

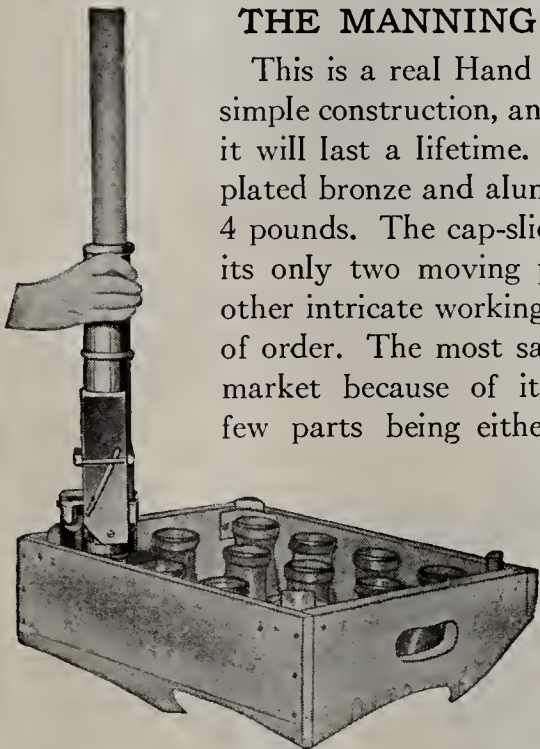
De Laval Magnetic Milker Outfits are furnished for milking any number of cows, whether it be 1 or 1000 or more. These outfits may be installed in any kind of barn, large or small. Each size outfit operates in exactly the same manner, being identical in quality, construction, and performance. They differ only in the size of the Pulso-Pump and number of units. A few of the various size outfits are illustrated on this page. Following is a list of the various size De Laval Magnetic Milker Outfits, what they consist of, and the number of cows they are designed to milk.

No. of Outfit	Pulso-Pump	Units	No. Cows	Power Requirements Motor	Engine
1	No. 25	1	5- 10	1/2 h.p.	1 1/2 h.p.
2	No. 25	2	10- 20	1/2 h.p.	1 1/2 h.p.
3	No. 40	3	20- 30	3/4 h.p.	1 1/2 h.p.
4	No. 41	4	30- 40	1 h.p.	1 1/2 h.p.
5	No. 47	6	40- 60	1 1/2 h.p.	2 1/2 h.p.
6	No. 48	8	60- 80	1 1/2 h.p.	2 1/2 h.p.
7	No. 87	12	80-120	3 h.p.	3 1/2 h.p.
8	No. 88	16	120-180	3 h.p.	3 1/2 h.p.

1. Increases milk-production.
2. Saves time and labor.
3. Produces cleaner milk.
4. Makes dairying much more pleasant.
5. Makes more money.

We can prove every point, and convince you that the De Laval Milker will soon pay for itself, if you are milking ten or more cows by hand. Give us an opportunity.

Large illustrated descriptive catalogue, with prices for installing, sent upon request.



THE MANNING HAND CAPPER

This is a real Hand Milk-Bottle Capper of simple construction, and so strongly built that it will last a lifetime. It is made of nickel-plated bronze and aluminum and weighs only 4 pounds. The cap-slide and the plunger are its only two moving parts, and there is no other intricate working mechanism to get out of order. The most sanitary machine on the market because of its great simplicity, its few parts being either nickel-plated or aluminum. As it operates by gravity, a child can run it without tiring, and it is a profitable investment for small plants. \$25.



Belt Washer

BELT WASHER

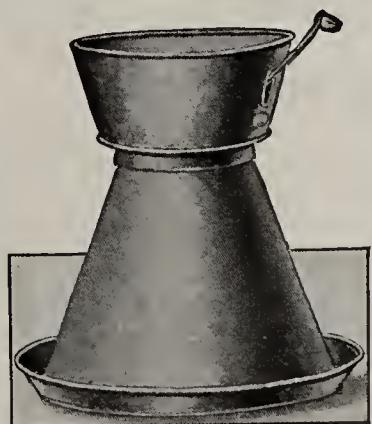
A sturdy, well-built, single-pulley Belt Washer that can be driven equally well direct from an engine, motor, or line-shaft. There are no gears, and the brush is connected right on to the main shaft. This little machine is carefully built and is very heavy in construction. The bearings are poured from high-grade Babbitt and will last a lifetime. Machine shipped complete as shown, with brush and brush-holder. Pulley 5 1/2 in. diam., with 2 1/2-in. face. Single end, \$10.

DAZEY CHURN

Dazey Churn. Most sanitary Churn on the market. Extra-heavy glass jar, nickel-plated top. No. 300, \$5; No. 20, \$1.75; No. 40, \$2.75; No. 60, \$3.25; No. 80, \$3.50.

VARNISHED CYLINDER CHURN

Varnished Cylinder Churn. No. 0, \$3.25; No. 1, \$3.50; No. 2, \$4; No. 3, \$4.50.



CHAMPION MILK COOLER

It is a perfect aerator, removing all flavors arising from excessive cabbage, turnip, or silo rations. No. 2, \$9; No. 3, \$10.80; No. 4, \$13.50.

NEW ENGLAND BUTTER MOLD

1-lb. size, \$1; 1/2-lb. size, 75c.

4-BOTTLE FILLER

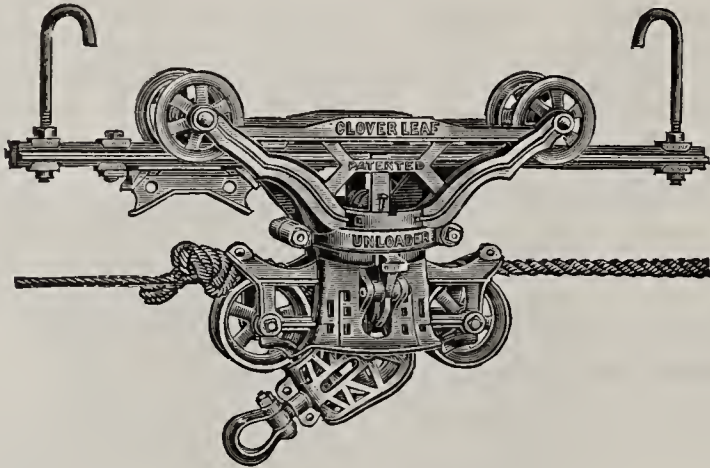
Fills single row of 4 quarts or 4 pints. Regular quart crate or 16-pint crate. No transferring if 16-pint crates are used. Some milk-dealers fill in 16-pint crate and transfer to regular 20-pint crate. Furnished with Strainer cover and also in 9-valve size.

MILK STRAINERS AND FILTER DISCS

- Superior Milk Strainers. \$2 00
- Funnel for use with 10-qt. cans. 1 00
- Perfection Filter Discs. Carton of 300. 2 00
- Johnson & Johnson Discs. Carton of 300, 6-in., Plain. 1 00
- 6 1/2-in., Plain. 1 25
- 6-in., Faced. 1 65
- 6 1/2-in., Faced. 2 00
- MILK-PAILS. 85 cts. to \$3.25 each.
- MILK-CANS. 4-qt. \$1.75; 10-qt. \$2.35; 20-qt. \$3.50; 40-qt. \$4.50.

MYERS HAYING TOOLS

The advantages of a Hay Carrier as a means of storing away hay are so well and generally known that we do not deem it necessary to go into detail regarding same. We simply state the fact that they save the time and expense of from one to three men for each day of the harvest, the cost of which will pay for the outfit in from two to three years, to say nothing of the advantages of storing the hay away quickly, thus often saving it from being spoiled, which naturally lowers the quality. Three tons of hay thus saved will pay for the entire outfit



CLOVER LEAF HAY UNLOADER

Heavily and substantially built of malleable iron throughout. Fitted with wide-open mouth to receive the fork pulley when approaching in any direction. Also has a swinging fork pulley which relieves the car from all strain when drawing hay over a high beam or into a well-filled mow. Track wheels revolve on $\frac{7}{8}$ -inch turned steel axles. Rope sheaves have larger hub than any other make of carrier. The lock consists of three parts and has no springs. Carrier is adjustable to any standard make of steel track.

Made either for wood or steel track. Price, \$9.

MYERS HAY FORKS



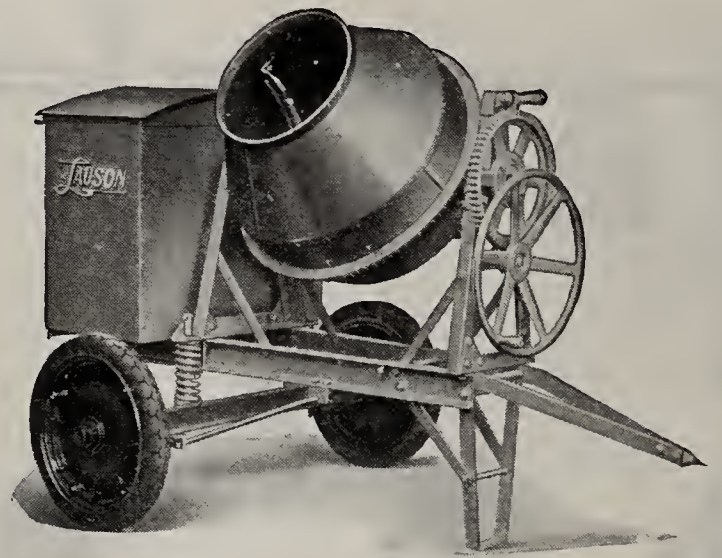
The **Automatic Grapple Fork** is made with either 4 tines or 6 and is unlike any other inasmuch as it is not only balanced at all points but in addition the natural pull on the trip-rope closes the fork and locks it securely, thus returning it to the load all ready to enter the hay without any attention whatever from the operator as to the setting of the lock, etc. It is doubly

braced throughout, making it very rigid and strong. 4-tine, \$9.50; 6-tine, \$11.

The **Double Harpoon Forks** are made in two lengths of tine, 25 and 31 inches, and are the same excellent quality as the Automatic Grapple. 25-in. \$2.25; 31 in. \$2.50.

MYERS HAY TOOL FITTINGS

Steel Track, per ft.....	\$0 21
Hanging Hooks.....	16
Rafter Grapple.....	1 25
Roller-bearing Pulley.....	1 65
Cast-iron Pulley.....	55
Steel Track Hangers.....	05
Floor Hooks. $\frac{3}{4}$ -in.....	16
Rope Hitch.....	40
Steel Knot-passing Pulley (wood sheave).....	65

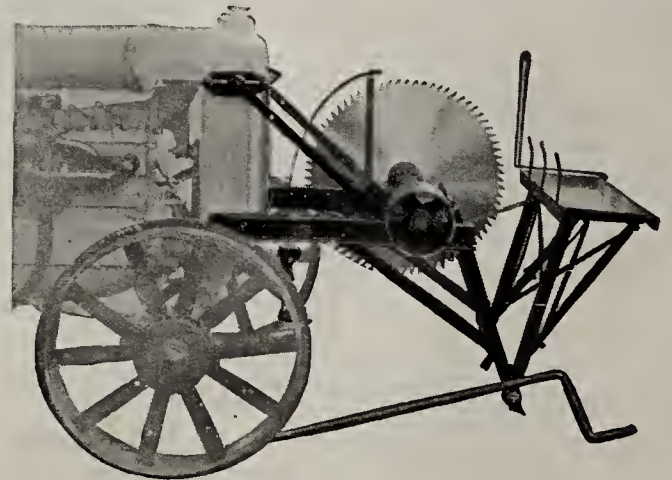
THE LAUSON 3 $\frac{1}{2}$ FOOT or $\frac{1}{2}$ -BAG CON-
CRETE MIXER

Timken Bearing Equipped

This size Mixer has become our leader due to its acceptance as a standard the country over by contractors. Its high-grade construction and correct engineering are outstanding in every detail. It has a convenient large hand-wheel, and semi-automatic discharge, with a lock that can be depended on to hold the drum in any desired position. The specially designed blades give a kneading and stirring action, and the slat construction permits a large clearance for the water, helping to clean the drum more thoroughly and shortening the time of mixing.

The 2 H.P. Lawson Engine which delivers plenty of surplus power and is equipped with high-tension magneto, is enclosed in an all-steel housing with large, removable doors, permitting easy accessibility for inspection.

The $\frac{1}{2}$ -bag, tilting Mixer, rated 3 $\frac{1}{2}$, holds 5 $\frac{1}{2}$ cubic feet of loose material, as approved by the Associated General Contractors. It readily turns out 45 to 60 yards of mixed concrete per day. Price, \$250.



STOVER SAW RIG

With the Stover Rig attached to your tractor you can take your outfit wherever poles, etc., happen to be, saw them up, and go on. Complete, with belt and 26-in. saw, \$60.

AMERICAN Iron-Frame Horse-drawn Saw Rig, equipped with six horse-power gasoline engine, belt, and 26-in. saw, \$300.

RANDOLPH Saw Tables, including 26-in. Curtis X cut saw No. 2, \$37; No. 4, \$30.

RUBBER BELTING for operating concrete mixers, pumps, saw rigs, etc.

1 $\frac{1}{4}$ inches wide, per foot.....	\$0 30
2 inches wide, per foot.....	35
3 inches wide, per foot.....	45
5 inches wide, per foot.....	70
6 inches wide, per foot.....	1 00

VIGORO SPREADERS

The Junior Vigoro Spreaders are sturdy, simple, economical, and fill a long-felt need. Never before has a Spreader having all these qualifications been offered to the public. It is easy to push, even when the hopper is filled to capacity, and is built to stand long and hard wear. Positive drive—no troublesome gears, ratchets, or other delicate parts to wear out or get out of adjustment. The baffle plate in the hopper relieves weight of material from agitator, and the Spreader applies the same amount of Vigoro whether the hopper is full or only partly full. The discharge control is plainly marked to indicate setting for 4-pound or 2-pound applications per 100 square feet. Shut-off is hand-controlled and the wheels are of the disc pattern.

The spreading width is 14 inches; hopper capacity of 35 pounds. Price, \$5.95.

The Little Vigoro Spreader for smaller areas saves time and labor and is ideal for

sowing on windy days. Designed for use on established lawns, but can be used on newly prepared soils if the soil is well firmed. It will sow grass seed evenly and accurately.

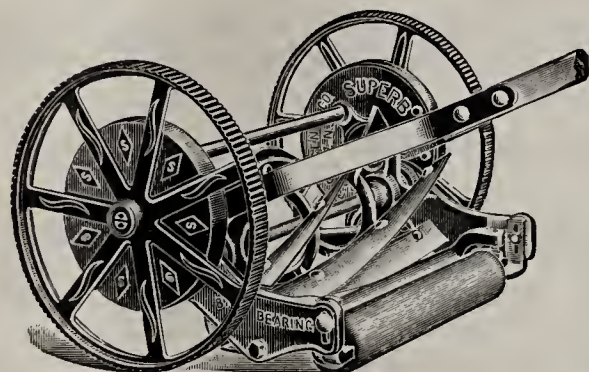
The spreading area is 14 inches, with a hopper capacity of 13 pounds Vigoro. Price, postpaid First and Second Zones, \$2.10.



Jr. Vigoro Spreader



Little Vigoro Spreader

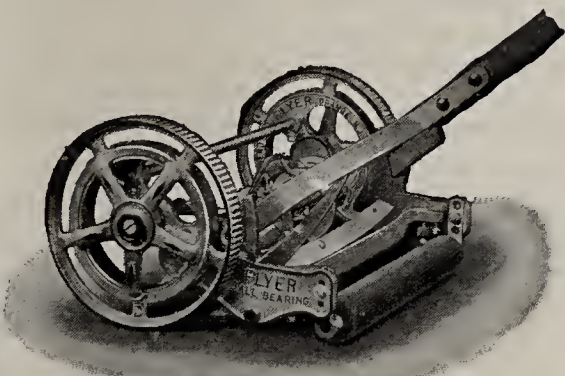


"UPERB" BALL-BEARING MOWER

A magnificent Mower, with 12-inch wheel and 7-inch reel. It is the only Mower on the market with 12-inch wheel. The large wheel adds to the power and ease of operation. The large reel enables it to cut through grass so high that it would choke most other mowers. It possesses these two great advantages without the disadvantage of extra weight, the strength not having been sacrificed.

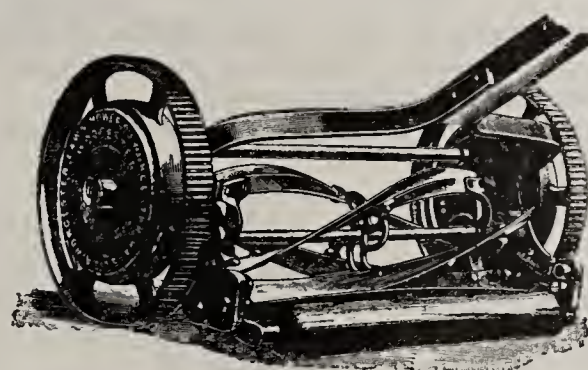
TOWNSEND'S "FLYER" BALL-BEARING MOWER

A good, free-cutting, easy-running Mower, with open wheel and frame, made on the two-gear principle. Gears well up from the ground and fully shielded so as to exclude dirt and cut grass. Has 9-inch wheels, 4-bladed reel, the finest bottom knife and the famous Townsend finish.



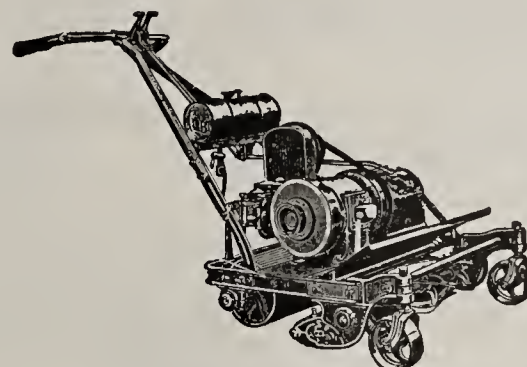
LAWN MOWER REPAIR PARTS

We carry in stock a full line of repair parts for all the Hand and Power Lawn Mowers we catalogue, thus assuring our customers of no long wait or delay for parts needed for replacement in case of wear or breakage.



THE LARK MOWER

A low-priced Mower, well made and durable; does good work, is simple in construction, and not liable to get out of order.



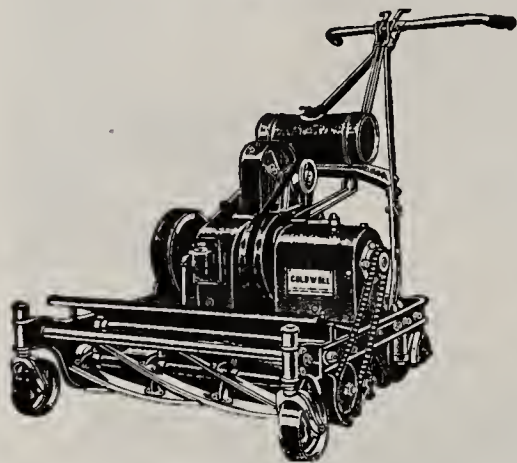
CUB POWER LAWN MOWER

The Coldwell Cub is a light, substantially built, power Lawn Mower with a 21-inch detachable front cutting unit and a full-width drive roller. Separate clutches control the cutting unit and the traction roller. The clutch levers are conveniently located on the handle and can be engaged or disengaged with one finger. The drive roller is divided and is driven through a differential so that sharp turns can be made without marking the lawn. Where ground conditions require, wheels can be substituted for the drive roller, making a wheel type mower but retaining the advantages of a removable front cutting unit.

The front cutting unit makes it possible to cut close to trees or walls so that a finished job can be done without the use of a hand mower. The cutting unit can be removed for sharpening or repair without loosening up the cross members of the frame or cutting unit.

In this machine we realize our ideal of a light, strong, easily handled mower, so simple that an inexperienced man can understand and operate it. It is made light and strong by using steel and malleable iron where best adapted. Flexibility in maneuvering is obtained by proper distribution of weight and mounting on a large drive roller and casters.

COLDWELL Power Lawn Mowers



COLDWELL "L" TWIN MOTOR LAWN MOWER AND ROLLER

A practical motor-driven, hand-controlled Lawn Mower with plenty of reserve power, making it possible to cut close up to and around trees, shrubbery, walks, and driveways; to operate efficiently on the smaller areas and at the same time to cut from 4 to 6 acres per day on the larger areas of lawn. In this model is combined the extreme flexibility of the hand Mower with the large cutting capacity, rolling feature, and other advantages and conveniences which can be obtained only with a motor Mower.

Its operation and care are extremely simple and easily understood.

Coldwell, 4-cycle, water-cooled motor. Bosch magneto. Tillotson carburetor. Height of cut $\frac{3}{8}$ to 2 inches. Capacity 4 to 6 acres per day. Fuel consumption 1 gal. gasoline per 10 hours running. Allyn-Zerk force-feed lubrication.

The gasoline tank holds sufficient for full day's cutting.

The new detachable Gang Units for use with the "L" Twin increase the cutting width from 25 to 60 inches for cutting the large open stretches of lawn.

The Gang Units are easily attached or detached. The

couplings are flexible so that the units readily follow the contour of the ground.

These Gang Units are made so that they can be attached to all Model "L" Motor Lawn Mowers now in service.

COLDWELL "TWIN 30" LAWN MOWER

The "Twin 30" is a combined Lawn Mower and Roller having a capacity of from 6 to 8 acres per day, with plenty of weight for effective rolling on athletic fields. Extremely flexible and easily manoeuvred around trees, flower-beds, borders, etc.

The drive roller is full width and is built in two sections with differential to prevent marring the turf.

Successive mowing and rolling with the "Twin 30" smooths down mole-runs, worm-casts, and other soil upheavals, and produces a fine, smooth, velvety finish to the turf. This Coldwell Model was designed for use on large lawns and produces the finest possible effect with a minimum of labor and expense.

The Two-Cylinder, four-cycle, water-cooled motor provides an abundance of power for climbing steep grades and for cutting in tough grasses. The motor was designed especially for this model by Coldwell engineers and is built complete in the Coldwell factory.

Automatic lubrication has been provided throughout to insure smooth, dependable service and to reduce wear and tear on the machine. The clutches and transmission are entirely enclosed and protected from dirt and grass. Roller bearings are used to insure long life to all mowing parts and to minimize the necessity for adjustments and lubrication. The rugged construction and simplicity of design insure consistent, dependable performance.

Prices of Walk-Type Power Lawn Mowers

"Twin 30," 30-in. cut.....	\$405 00	"L Twin," with gang, 60-in. cut.	\$415 00
Grass Box for "Twin 30".....	15 00	Riding Sulky for "Twin 30" or "L Twin".....	20 00
"L Twin," 25-in cut.....	355 00	"Cub," 21-in. cut.....	200 00
Grass Box for "L Twin".....	12 00	Grass Box for "Cub".....	10 00

LOCKE

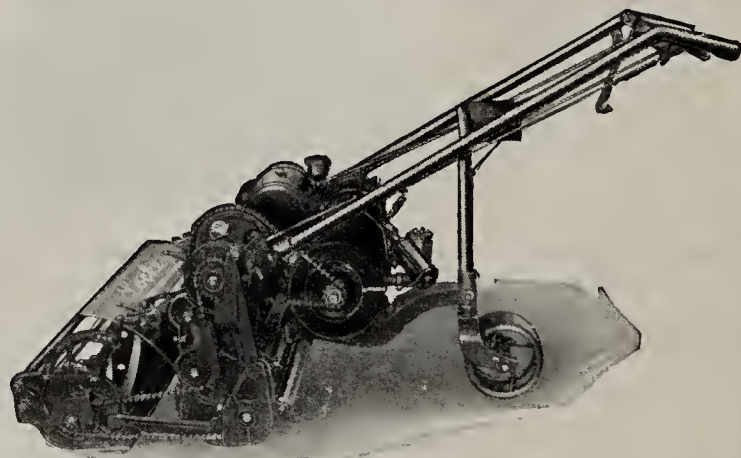
Power Lawn Mower and Trimmer

(Two Machines in One)

Made in two types—Single Unit, 25-inch; Triplex, 70-inch.

Has no wheels to mark the lawn and will mow up 50 per cent grades. Cuts close to trees, etc., and mows borders. The motor has a normal rating of 1 horse-power, 4-cycle, air-cooled. Magneto is high-tension built, in fly-wheel type. Lubrication is pump and splash. Carburetor (governor control) is Tillotson. Seventeen ball-bearings protected by felt washers. Hardened roller chain-drives with cut sprockets. Chains and sprockets thoroughly guarded. Cutter unit is flexible and can be held in the correct vertical alignment to hold the cut at the desired gauge and also allow the unit to float with the contour of the ground independent of the tractor unit. The unit is counter weighted by torque springs working on the lifting levers on each end of the mower lifting-lever shaft.

Prices and detailed information on request.

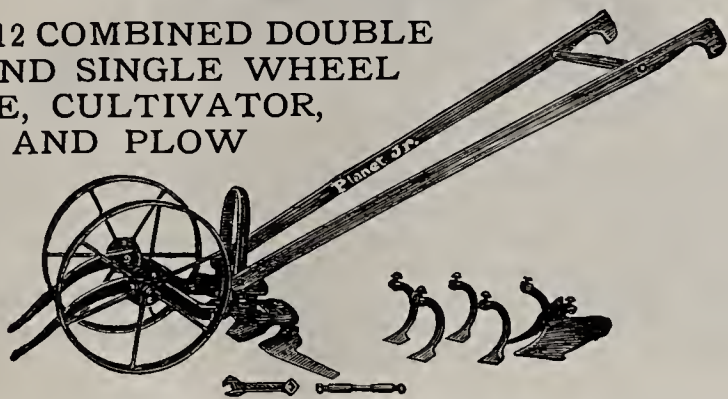


Planet Jr. Garden Tools

The New "PLANET JR." Catalogue is the handsomest, best, and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. We mail it free to any address on application.



No. 12 COMBINED DOUBLE AND SINGLE WHEEL HOE, CULTIVATOR, AND PLOW



This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth, and a pair of leaf-lifters only, and is sold at a correspondingly lower price.

No. 13 COMBINED DOUBLE AND SINGLE WHEEL HOE

This tool is the No. 11, with 6-inch hoes only, these being the tools that are most used. Any or all of the other attachments shown with No. 11 may be added at any time.



No. 16 PLANET JR. SINGLE WHEEL HOE, CULTIVATOR, RAKE, AND PLOW

These Single Wheel Hoes are the highest type of their class. They have a great variety of attachments, and there is scarcely any garden culture of which they are not capable.

Nos. 16, 17, 17½, and 18 have the same steel wheels, frames and handles, but the attachments sold with each vary.

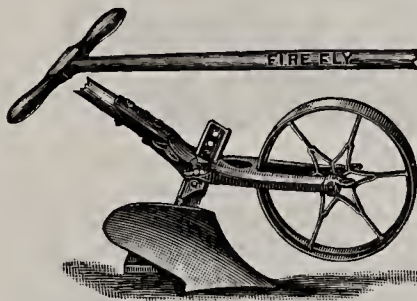
All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil-tempered, and specially hardened, finely formed, finished, and polished **and work to a charm**. Everyone who cultivates needs one.

NO. 300 PLANET JR. DRILL SEEDER

A very efficient plate seeder intended primarily for the market-gardener and large vegetable grower. It is designed for any soil—heavy, sandy, or muck.

It is light weight, and has a 15-inch drive-wheel with a 2½-inch face, making for maximum ease of pushing, and minimum sinking in light muck soil.

The hopper bottom, spout and feed-wheel are cast white metal; very light, and non-corrosive, and finished to one-thousandth of an inch, insuring long wear.



FIREFLY PLOW

This tool will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seeds can be opened and covered. In cultivating, plow away, weed the row and plow back again. This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken-raisers find it of great advantage in plowing up their scratching-yards. Weight, packed, 14 pounds.

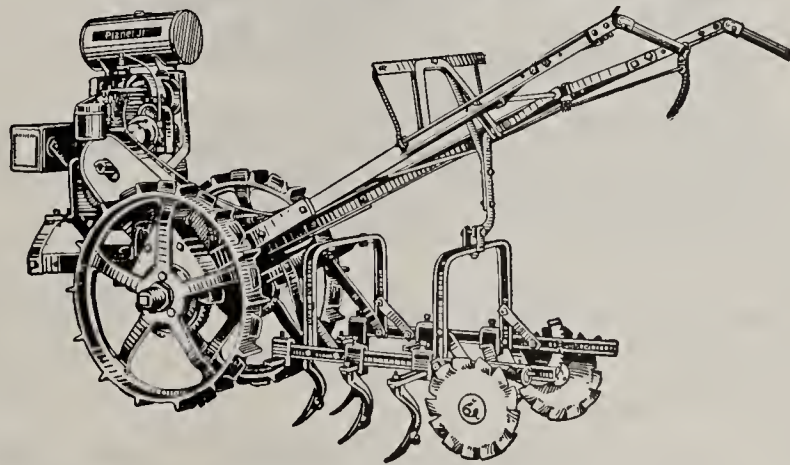


NEW STYLE STAR PULVERIZER AND CULTIVATOR

A very handy tool for the flower- and vegetable-garden. Cut 7½ inches and can be used where plants are very close. The star discs break up the soil, while the oscillating blade—which works backward and forward—pulverizes the soil

and cuts off the weeds directly beneath the surface. Will cultivate your garden directly after a rain without leaving the soil in a lumpy condition.

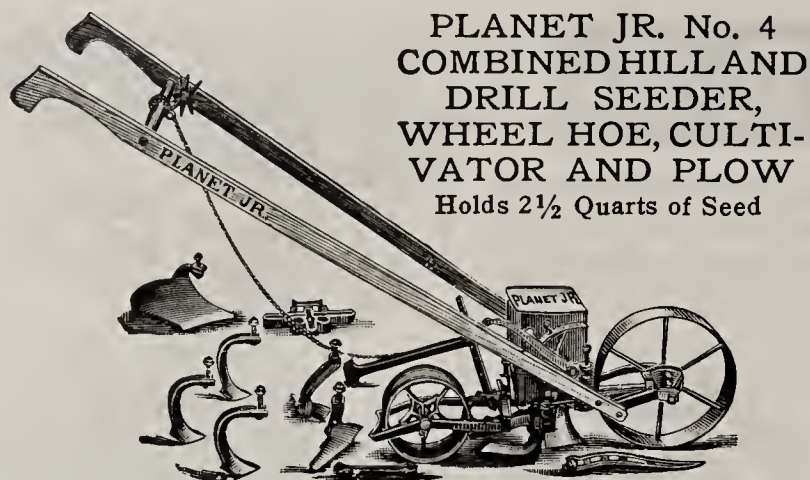
PLANET JR. MOTOR CULTIVATOR



This Cultivator is built rugged, sturdy, heavy, and powerful enough to withstand the punishment it is sure to get, but is not so big and heavy that it will not satisfactorily cultivate narrow-row crops. The patented steering control enables the operator to do the finest, closest kind of cultivation and yet is so easy to steer that a child can learn to operate it in a few minutes. The Cultivator weighs 400 pounds, giving the traction necessary for plowing and for deep cultivation. Ask for special circular and prices.

PLANET JR. NO. 5 HILL AND DRILL SEEDER

16½-inch steel wheel. Sheet-steel hopper holding 5 quarts. Built on the same lines as No. 3 Drill, only larger. Weight, packed, 52 pounds.



PLANET JR. No. 4
COMBINED HILL AND
DRILL SEEDER,
WHEEL HOE, CULTI-
VATOR AND PLOW
Holds $2\frac{1}{2}$ Quarts of Seed

This tool combines, in a single, convenient implement, a capital hill-dropping seeder, a continuous-row seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow. In a word, with a great variety of tools, excellent in design and quality, it is without an equal for easy adjustment, lightness, strength, and beauty. It is a practical, everyday time-, labor- and money-saver. It sows in continuous rows with great uniformity, and drops with accuracy in hills, 4, 6, 8, 12, or 24 inches apart. **The feed is automatically** stopped by raising the handles, and started by lowering them. Weight, 49 pounds.



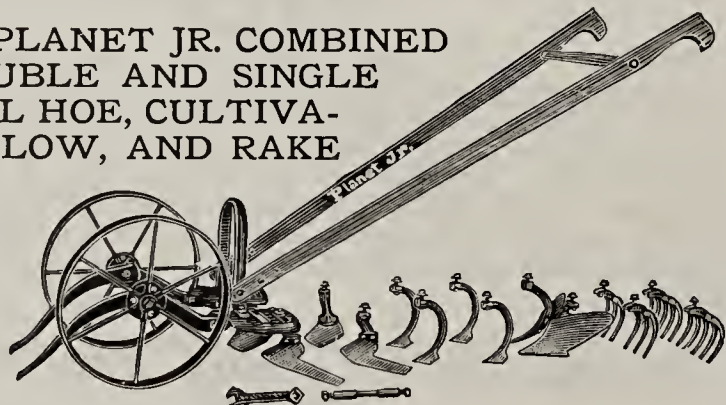
PLANET JR. No. 25 COM-
BINED HILL AND DRILL
SEEDER AND DOUBLE
WHEEL HOE, CULTIVA-
TOR, AND PLOW

Holds
 $2\frac{1}{2}$
Quarts
of Seed

This new combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

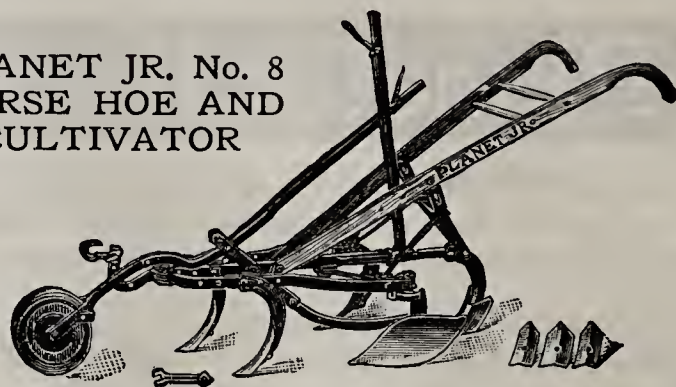
As a seeder it is practically the same as the Planet Jr. No. 4; will sow in drills any thickness, or drop in hills 4, 6, 8, 12, or 24 inches apart, and has the same feed, hill-dropping mechanism, and **automatic device** for stopping the feed, and has also the new seed index. It is thoroughly substantial and is accurate in planting all kinds of garden seeds in either hills or drills. Weight, packed, 59 pounds.

No. 11 PLANET JR. COMBINED
DOUBLE AND SINGLE
WHEEL HOE, CULTIVA-
TOR, PLOW, AND RAKE



A Double and Single Wheel Hoe in one. 14-inch steel wheels for 1918. Straddles crops till 20 inches high, then can be worked between rows with one or two wheels. The **hoes** are wonderful weed-killers and leave the ground almost level.

PLANET JR. No. 8
HORSE HOE AND
CULTIVATOR



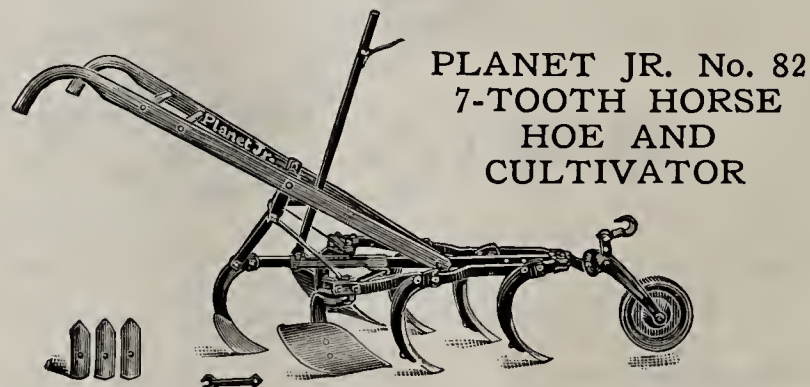
A great favorite, being complete and easily operated. Especially strong and intended for long-continued service. Equipment consists of four 3 x 8-inch cultivator steels; one 12 x 8-inch cultivator steel; two 6-inch hillers; one 7-inch shovel; lever wheel; lever expander; depth regulator. The teeth are regular Planet Jr. beveled steel type, thickest in the center where wear is the hardest. Handle adjustment up or down for height, and an important side adjustment. Invaluable in cultivating almost every crop grown in rows. Weight, 83 pounds.

PLANET JR. No. 7 HORSE HOE

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same as the No. 8 in every way, except that it lacks the steadiness and easy control of depth made possible by the depth regulator.

No. 9 PLANET JR. HORSE HOE

A very popular tool which is identical with the No. 7, except that it has a plain wheel instead of the lever wheel. Popular because of its strength, lightness, easy change of width, and perfection of work. Handles adjustable in height and sidewise. Equipment as shown in cut offers a tool which will always be useful. Will stand incredible strain; you can cultivate to any reasonable depth with it, and adjust for any useful width.



PLANET JR. No. 82
7-TOOTH HORSE
HOE AND
CULTIVATOR

A comparatively new combination of Horse Hoe and Cultivator that has become very popular during the few years that it has been on the market. It has all the advantages of our No. 9 Horse Hoe; its reversible side standards can be turned to any angle desired. The seven teeth insure fine and thorough cultivation. Will take all the extra attachments which fit our Nos. 7, 8, and 9 Horse Hoes, and the whole combination is one which is valuable for hoeing, hilling, and thorough cultivating.

No. 83 PLANET JR. 7-TOOTH PLAIN
CULTIVATOR

In the opinion of those who ought to know, it is the coming one-horse Cultivator. The seven teeth instead of the ordinary five are $2\frac{1}{4}$ inches wide, and their work is finer and more thorough than that of the 5-tooth Cultivator. A favorite where fine cultivation is essential. Finishes all rows up to 42 inches apart, and will work the middles complete in one passage. Can be run deep or shallow. Takes extra attachments shown on pages 53, 55, and 56 of the Planet Jr. Catalogue.

PLANET JR. 12-TOOTH HARROW, CULTIVATOR, AND PULVERIZER



Gardeners cultivate better than formerly. It has been found to pay best. With the 12-tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You can widen and narrow the cultivated strip to any width you please between 12 and 32 inches. This implement is a special favorite with strawberry-growers, market-gardeners and truckers.

CLARK'S CUTAWAY UTILITY ONE-HORSE HARROW



The Utility Harrow, as its name implies, has a wide variety of uses and is ideal for the farmer who wants a one-horse Harrow that will give thorough tillage. Being spaced only 5 inches apart, the 10 disks thoroughly chop and pulverize the soil. The disks are Clark Cutaway quality.

CLARK'S TRACTOR BUSH AND BOG PLOW AND HARROW

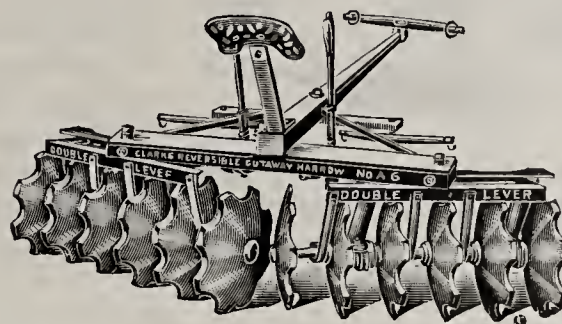
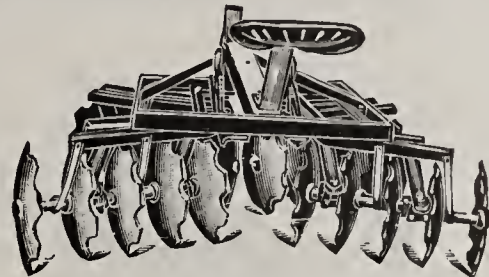


This is a special heavy-duty implement for subduing new land, for plowing bogs, old pastures, or for any plowing or harrowing job too difficult for ordinary implements. It is also used extensively for orchard tillage. Disks are 24 inches in diameter. This serviceable machine is made in four sizes; use with tractor or horses.

Reversible gangs will be furnished with or without weight-box. Screw control is regular equipment; but lever will be furnished if it is preferred.

CLARK'S DOUBLE-ACTION CUTAWAY HARROW

The cut represents the A-5 Double-Action Cutaway Harrow with short head and jointed pole. This is the popular two-horse size. We also sell sizes from 3 to 12 feet, with 16-, 18-, or 20-inch cutaway disks.

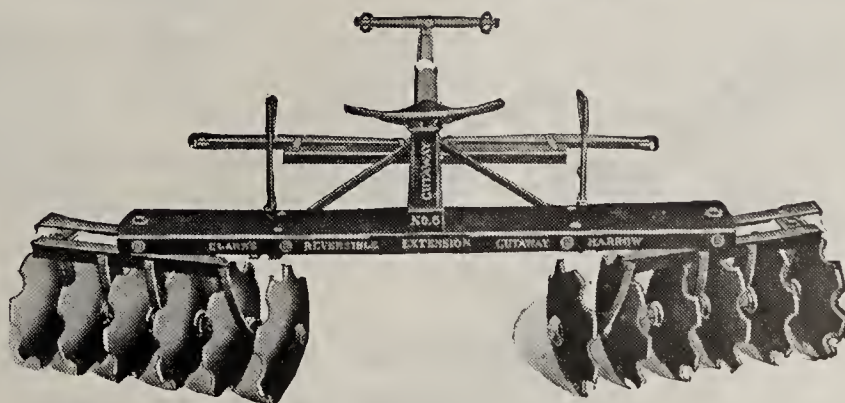


CLARK'S SINGLE-ACTION REVERSIBLE CUTAWAY HARROW

The cut represents the 6-foot Double-Lever Reversible Cutaway Harrow. They are made from 4 to 12 feet in width, and are reversible up to 7 feet.

CUTAWAY GROVE HARROW

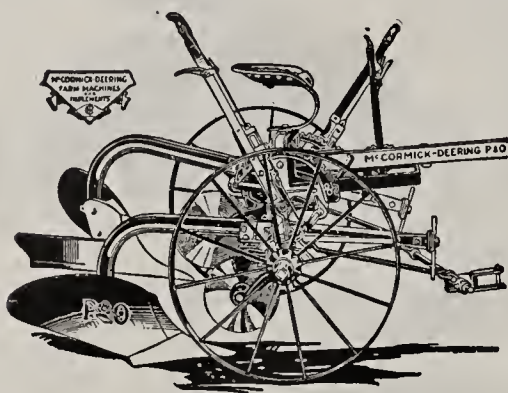
In many orchards, groves, and gardens, the soil is of such nature that often Harrows are kept from going too deep at the sacrifice of thorough surface cultivation. The Cutaway Grove Harrow overcomes this difficulty.



CUTAWAY EXTENSION-HEAD SINGLE-ACTION HARROW

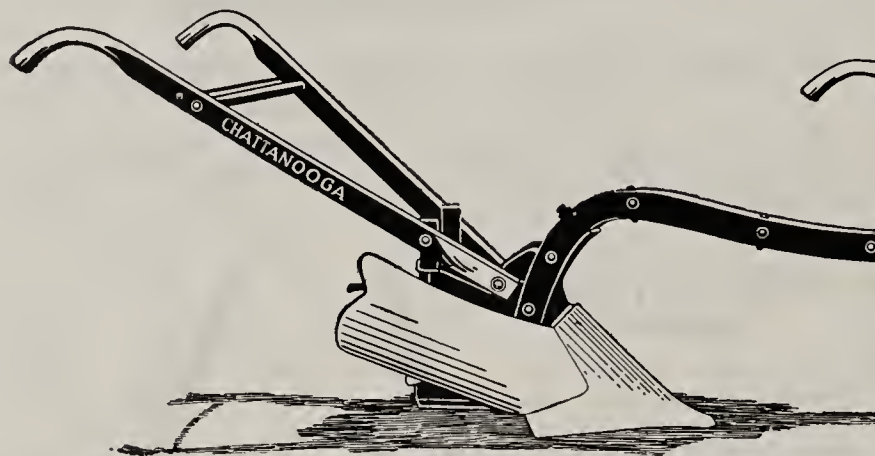
To orchardists the Cutaway Extension-Head Single-Action Harrows are fast becoming the most indispensable tools they use. When the farmers of every class fully understand the soil and realize the importance of intensive tillage, they will recognize how they can increase their crops with Cutaway Single-Action Harrows.

McCORMICK-DEERING TWO-WAY SULKY PLOW

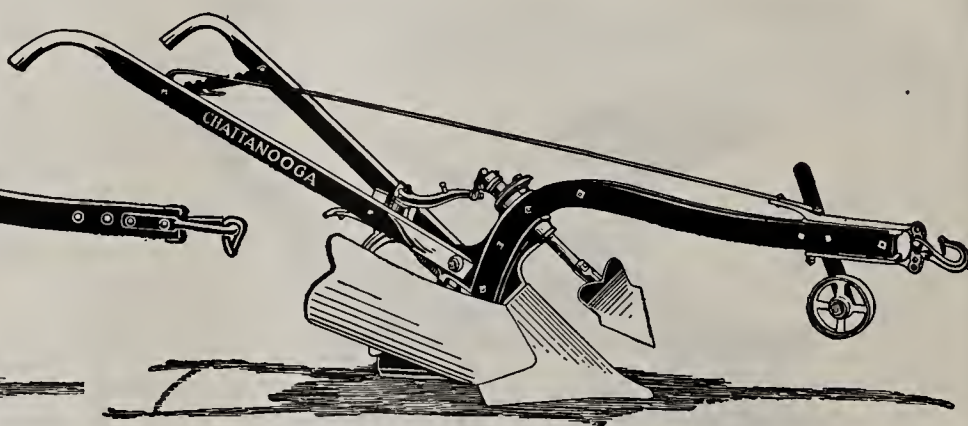


This is a very superior implement for use in hilly fields and in irrigated sections where it is desirable to keep the plowed land free from dead and back furrows. As it is a two-wheel Plow, it can be turned very short and is well suited to small and irregularly shaped fields. It has a right and left-hand bottom, and each has a separate beam and works independently of the other. The Plow can be used always on the same side of the land, one bottom being used going and the other coming back across the field. By raising bottoms at the end of field, the Plow can be turned in its tracks, just like a racing sulky. When changing from one bottom to the other, this hitch automatically takes its position in front of the bottom that is in the ground. The horses alternate, walking in the furrow and on the unplowed land.

The operator may ride or walk, as he prefers. The control levers are provided with additional hand-grips which the operator can reach from his walking position behind the Plow. The lever is also provided for maintaining the proper amount of land. This is handy when plowing sloping land and to keep the furrows straight when the horses pull sidewise.



No. 208



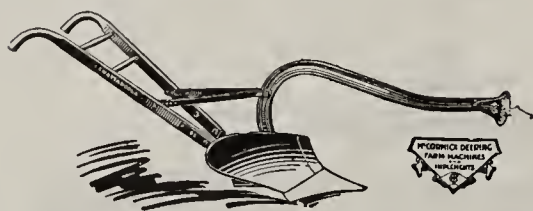
No. 210

McCORMICK-DEERING CHATTANOOGA "200 SERIES" HILLSIDE PLOWS

Chattanooga "200 Series" Plows are equipped with steel mold, chilled share, and extra share. The mold is of good length and of correct design to work well under all general plowing conditions. The beam is made of two flat bars, trussed together to form a beam that is both light and very strong. Beam and handles are of good length.

These Plows are furnished under the following numbers: No. 208, one-horse heavy, and No. 210 with lever-shifting clevis. All sizes furnished with gauge wheel. No. 208 has straight shifting hitch and No. 210 has shifting jointer.

Various specials can be supplied for these plows, including hanging cutters.

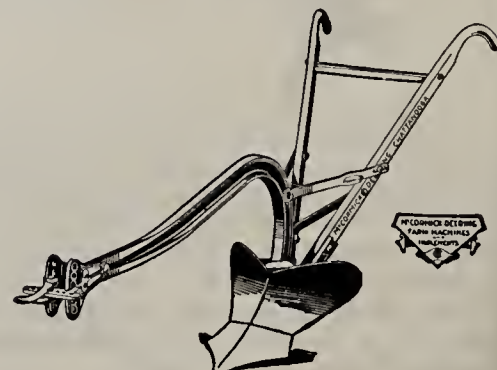


INTERNATIONAL CHATTANOOGA ONE-HORSE PLOW

The No. 92 International One-horse Plow has chilled moldboard and point, steel beam, and is sturdily built throughout. Handles are well braced and of good material. Its furrow capacity is 5 by 9 inches.

INTERNATIONAL CHATTANOOGA MIDDLE BREAKER PLOWS

The No. 15 is a popular one-horse breaker for plowing out furrows for corn and potatoes. The regular equipment is chilled moldboard and share, malleable frog with adjustable rudder, steel beam with clevis and shackle, and adjustable oak handles with steel extensions.



SYRACUSE CHILLED PLOWS

The Syracuse Chilled Plows are made of the very best of material and are of correct design and the most careful workmanship.

The No. 452 (illustrated) has a hardened steel moldboard with chilled landside and removable shin-piece. It has a furrow capacity of 5 to 7½ inches deep and 10 to 13 inches wide. Can be furnished with either colter as illustrated or with jointer.

The No. 32 is similar to the No. 452, but has a longer beam and handles. The moldboard is hardened steel with steel landside and chilled iron shoe, and is recommended for general use.

The heavy steel beam and malleable frog make it strong enough for the draft of three horses if necessary. The furrow capacity is the same as the No. 452. Furnished either with colter or jointer.

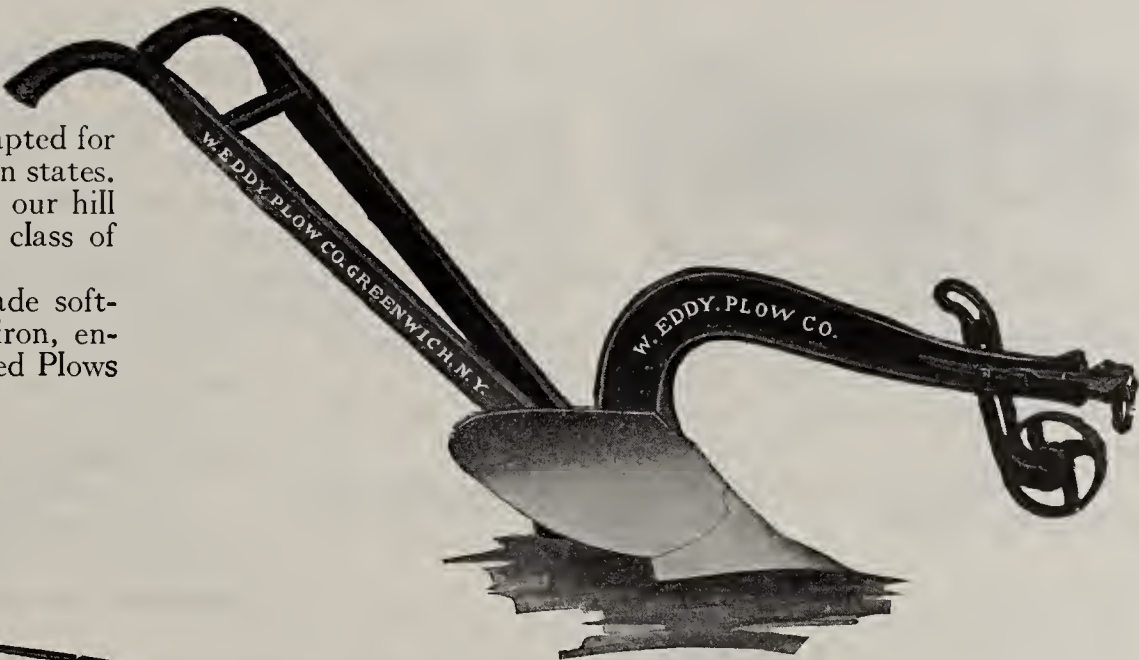
The No. 16 is a light, 2-horse, wood-beam, hillside or swivel Plow with wood beam and is equipped with an automatic colter and side-shift clevis. It has a furrow capacity of 5 to 7 inches deep and from 11 to 14 inches wide.

Circulars and prices sent on request.

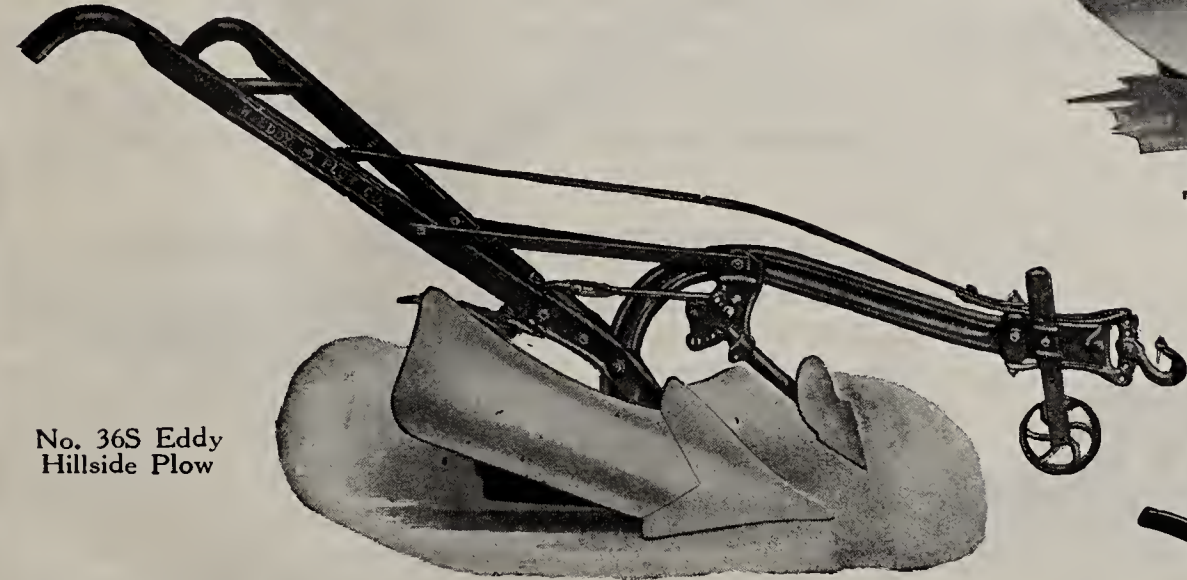
EDDY PLOWS

The No. 4S Plow is a model especially adapted for work on the rough, stony farms of the eastern states. Built to withstand the strains and wear of our hill farms, it has never been excelled for this class of work.

Moldboards are furnished of highest grade soft-center steel, open-hearth steel, or chilled iron, enabling a dealer to carry three different-priced Plows with but one line of extras.



No. 6 Eddy Plow

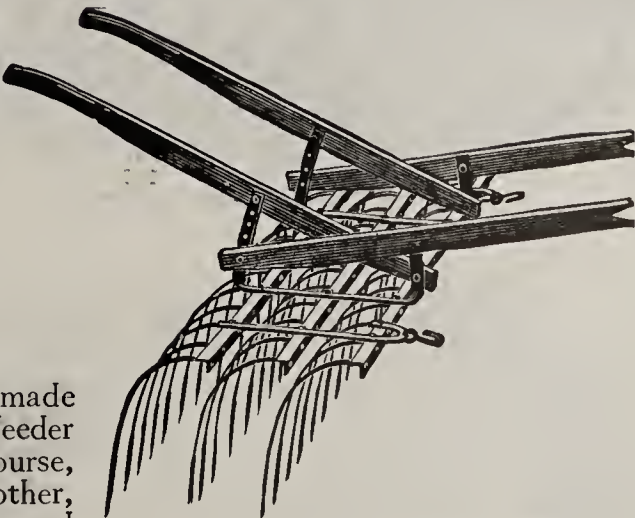


No. 36S Eddy Hillside Plow

This cut shows the Eddy Plow equipped with colter and with jointer. While intended primarily for hillside work, its moldboard is so modeled that it will run evenly and turn a furrow equal to any flat land plow. We also carry the Eddy one-horse, No. 52L, Wood Beam and O6 Steel Beam Plows.

HALLOCK SUCCESS WEEDER

Teeth are separately removable. Handles and shafts adjustable. Teeth are made of flat spring-steel (round at lower end). The frame is angle steel, giving the Weeder by far the best frame on the market. It weighs no more than wood and is, of course, better in every way. Each tooth is secured to the frame independently of the other, hence you can in about two minutes remove the teeth over the rows if you wish, and in some cases this is very desirable.

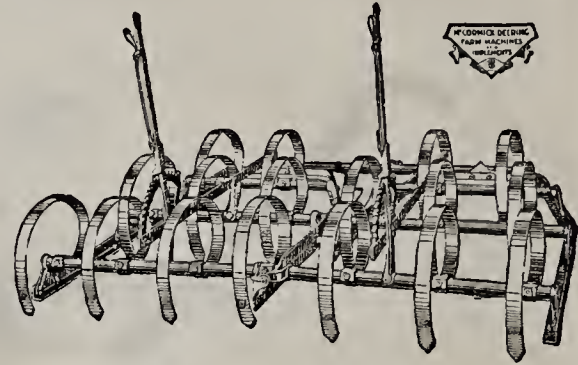


Hallock Success Weeder



Horse and Tractor Sizes

McCORMICK-DEERING SPIKE AND SPRING-TOOTH HARROWS



Spring-Tooth Harrow

Of the McCormick-Deering Peg-Tooth Harrows, the closed-end Harrow is the most popular. It is a rigid-frame Harrow, solidly put together, and good for years of hard use. The wood-bar lever Harrow is popular where weight is a requirement.

The closed-end Harrow is supplied in 1 to 4-section sizes, with 25, 30, or 35 teeth to the section. The open-end Harrow is supplied in the same sizes. Teeth are $\frac{5}{8} \times \frac{7}{8}$ inches, diamond shaped. Draw-bars are furnished except on single sections.

Spring-tooth Harrows can be supplied with either channel-steel or round-pipe bars. The spring teeth are securely attached to the tooth-bars and will not work loose. Teeth can be supplied to meet the requirements of different sections or to adapt the Harrows to different purposes. The line includes a special Harrow for killing quack and Johnson grass. Spring-tooth Harrow sizes range from $2\frac{1}{2}$ to 15 feet. The line also includes a combination Harrow with a row of trailing spike teeth in addition to the spring teeth.



JOHN DEERE SPREADER

A Revolution in the Art
of Spreader Building

Beater on axle makes it easy to assemble; easy to load—36 inches high; easy to operate—only two levers.

Rotary rake insures uniform spreading and reduced draft.

Ball-bearing eccentric and positive ratchet feed insure easy and uniform operation of steel-link apron under all conditions.

Rear wheels 48 inches high—proper traction, light draft.

All-steel, 10-bar beater mounted on roller bearings—practically indestructible—easy running.

Beater driving gears simple and durable, like triple gear horsepower—run in oil.

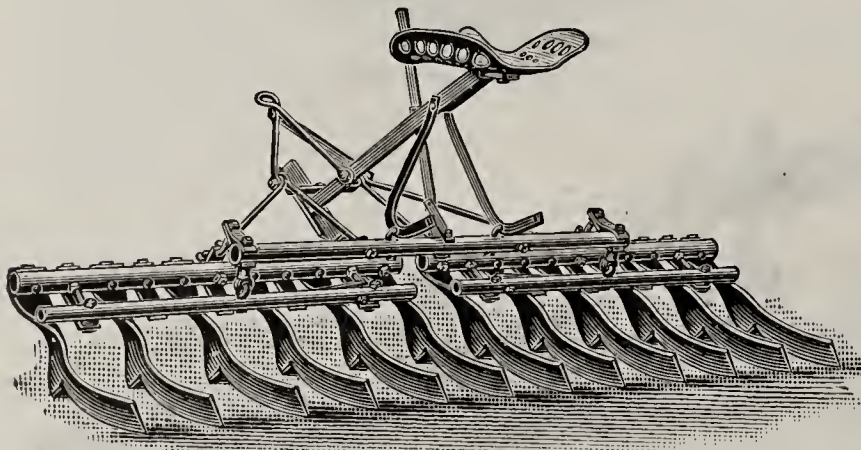
Shock-absorbing spring relieves Spreader and team of sudden strains.

Cold rolled steel axle, mounted in self-aligning bearings, stays put, and runs easy.

High carbon-steel frame, well trussed, carries heavy loads and working parts without sagging.

No exposed wearing parts—no chains—no clutches—no adjustments.

Straw Spreader Attachment makes a practical Straw Spreader—spreads all kinds of straw in any condition.



Acme Pulverizing Harrow

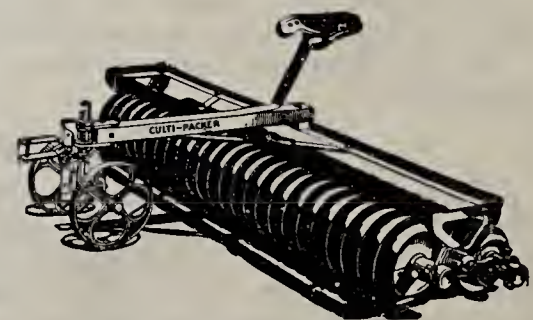
ACME PULVERIZING HARROW

This is not a special tool, as some have supposed, but, as its name implies, a general-purpose Harrow that will do the whole business, viz.: It will crush, cut, lift, turn, smooth and level, all in one operation. It will be observed that the colters all slope backward, thus presenting the least possible resistance, and as they are beveled and ground to an edge, the draft is reduced to a minimum. Being made entirely of cast steel and wrought iron, it is practically indestructible. Nothing but the colters can possibly wear, and these are readily replaced at a trifling cost.

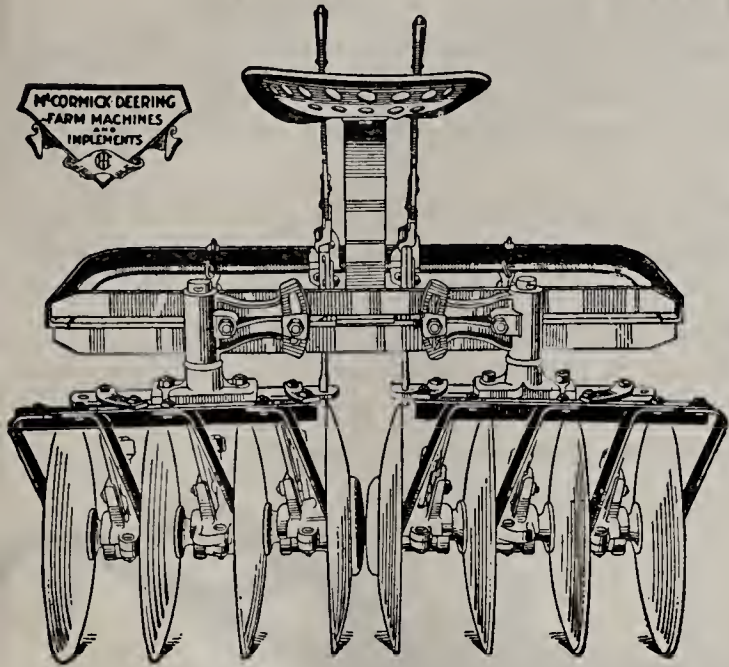
INTERNATIONAL CULTI-PACKER

THREE TOOLS
IN ONE

This is one of the best built machines that ever helped the farmer to get a bumper crop. The frame is made of heavy angle steel bars, bolted fast. Two channel steel bars run diagonally from the tongue across the frame. It takes the place of the old roller. This is not only a clod crusher, but a pulverizer, packer, and cultivator. This machine is practically indestructible and will last a lifetime. Length 54 inches. Weight 560 pounds.



International Culti-Packer

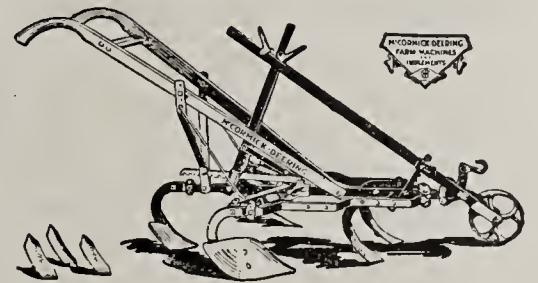


McCORMICK-DEERING DISC HARROW

Simplicity is the keynote of this Harrow. The frame is of one-piece angle steel, braced with heavy angle-steel back bar, giving complete rigidity to the gangs. The disks are subjected to a special heat-treating process which hardens, tempers, and toughens the fine saw-steel from which they are made, giving the disks exceptional ability to hold a good cutting-edge, even when cultivating and cutting in the hardest, stoniest soil. You can hurl one of these disks edgewise against a concrete floor without hurting its edge. You can bend it clear out of shape in a vise, and it will spring back to its normal shape. You can lay it on the floor and hit it with a sledge—you will have to hit mighty hard to dent it. A disk that will stand such treatment will stand abuse in the field.

McCORMICK-DEERING ONE-HORSE CULTIVATOR

These are built in three sizes with 5, 7, and 9 shovels. Each of the sizes can be equipped with lever expander, lead-wheel, with wing-hillers and horse-hoe. The construction of the various Cultivators is identical. Handles are of well-seasoned oak, with heavy round and tie-bolt. The strength of the frame is sufficient to withstand the severest use to which this Cultivator will be subjected under average working conditions. Do not confuse these with cheaply built Cultivators offered at a lower price.



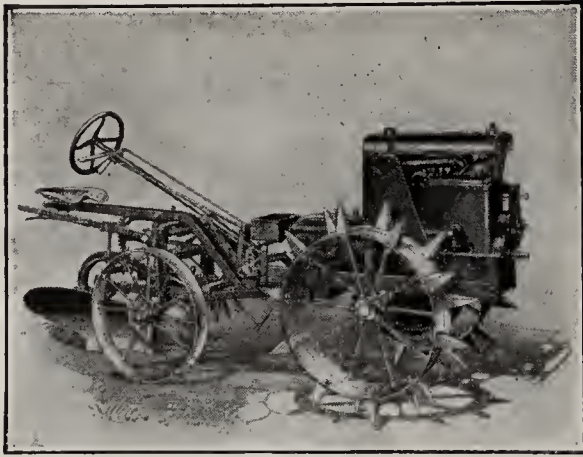
McCORMICK-DEERING 14-TOOTH CULTIVATORS

A handy, sturdily built Cultivator adaptable for the cultivation of all row crops. The sharp teeth do an excellent job of mulching the soil and killing weeds. They are clamped to the side bar with two bolts and have three adjustments for changing the cutting angle. Furnished with lead-wheel and lever expander.

McCORMICK-DEERING DIXIE WONDER CULTIVATOR

The Dixie Wonder is all steel except the handles, the beam being made of two sturdy angle-steel bars. Its teeth can be set in a straight line across the row, to break the crust without moving too much dirt, and can also be set V shape to move the dirt toward the center of the row or reverse to move the dirt toward the crop row. The teeth can also be set in a diagonal line, either way, to throw all the dirt in one direction as for work on hillsides.





Model G

THE CENTAUR FARM TRACTOR

The Model G 10-5 H. P. Centaur is a light farm Tractor of wide utility range. The Centaur plows, harrows, seeds, mows, hauls, and furnishes belt power. The Model G Centaur will do all the power work on the farm having as much as 50 acres under cultivation.

A 12-inch Plow is used with the Centaur and about $2\frac{1}{2}$ acres can be plowed in nine hours. The Centaur is the highest type power unit for cultivating purposes and will do more and a better job of cultivating than can be done with a team. In all work the Centaur operates at a cost of about 15 cents an hour.

In all kinds of work the Centaur is easy to operate and does the job quicker, easier, better, and at a less cost than it can be done in any other way.

Special catalogue and prices will be mailed to you on request.

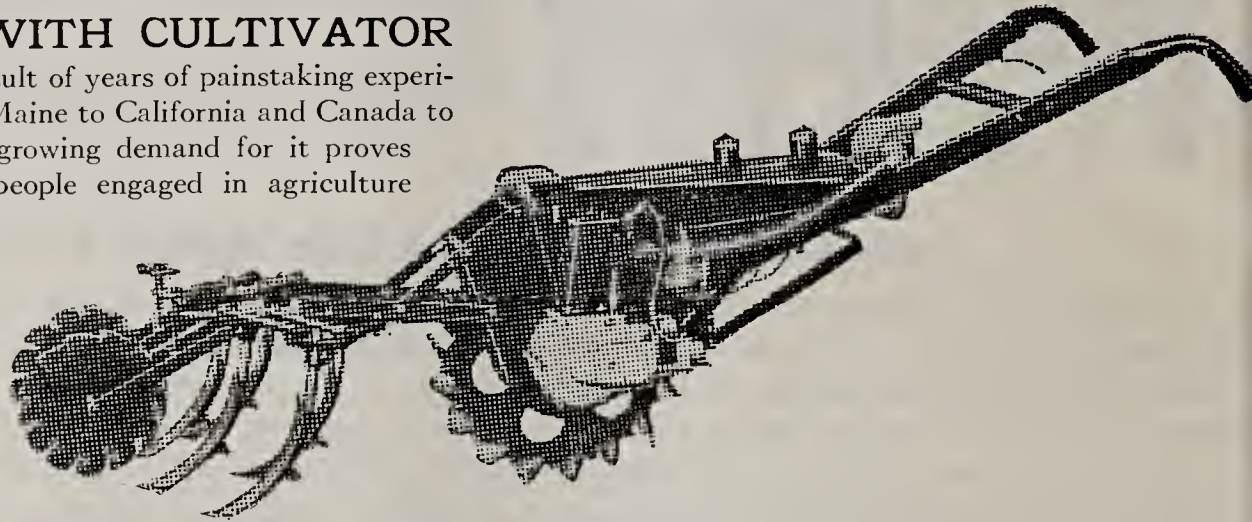
GRAVELY TRACTOR WITH CULTIVATOR

This Tractor and Cultivator, the result of years of painstaking experiments, has been tried and tested from Maine to California and Canada to Cuba, without a failure. The rapidly growing demand for it proves that it is just the machine that the people engaged in agriculture have been looking for.

A Midget in Size—a Giant in Power

It is a compact, single-wheel machine of perfect balance, making it easy of operation, and has five $2\frac{1}{4}$ by 10-inch Cultivator Steels, which can be kept any desired distance from the plants.

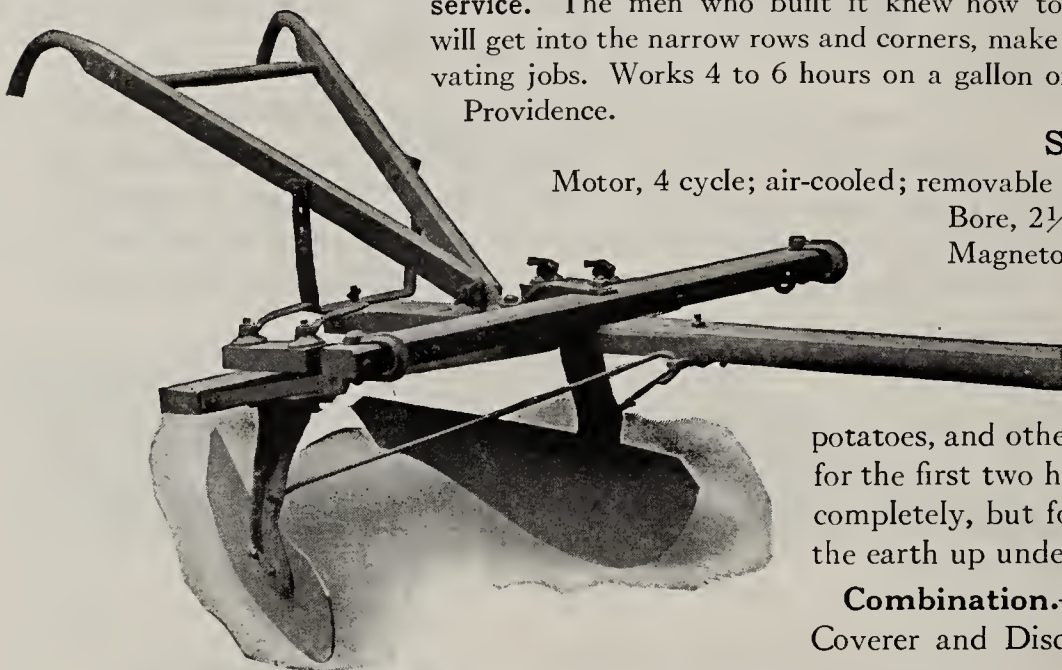
It is so small and narrow of tread that you can cultivate crops planted in 10-inch rows, yet so powerful you can work a $3\frac{1}{2}$ -foot row at one sweep. Nothing but the best of materials is used in making the Gravelly Tractor. Let us specially call your attention to the two Timkin Roller and three Norma Ball Bearings which are used. These time-tried Bearings may not make the machine look any better, but by putting them in it will wear better and also cost less in upkeep. All this means one thing—**satisfactory service**. The men who built it knew how to farm as well as build Tractors and Cultivators, for it will get into the narrow rows and corners, make short turns, pull big tools, or do the most delicate cultivating jobs. Works 4 to 6 hours on a gallon of gas. Tractor, with Cultivator equipment, \$250 f.o.b. Providence.



Specifications

Motor, 4 cycle; air-cooled; removable head; L Type; mechanical valves.

Bore, $2\frac{1}{2}$ -in.; stroke, 3-in. Horsepower S. A. E. rating 2 H. P. Magneto, Robert Bosch (German Bosch).



HORSE HOE OR WING COVERER

These tools are used for hoeing and hilling corn, potatoes, and other hoed crops. Many potato-growers use the disc hoe for the first two hillings when it is desirable to cover the young plants completely, but for later hillings use the Wing Coverer, which pushes the earth up under the plant and leaves the foliage on top.

Combination.—We can furnish a frame with both the Wing Coverer and Disc Coverer so that either set may be put on and used.

STEEL LAND ROLLERS

Our Steel Land Rollers are the most popular in the market today. Their construction is that which makes them the strongest, most durable, and easiest-draft Roller in use today. Roller-bearing and closed ends.

One-horse, 6 feet, 2 sections, 2-foot diameter.

Two-horse, 8 feet, 3 sections, 2-foot diameter.



Steel Land Roller

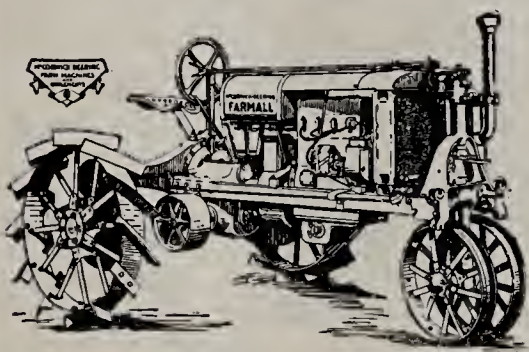
McCORMICK-DEERING TRACTORS

Power Farming has become recognized as a means of increasing farm returns through lower production costs. Successful farmers speak highly of their tractors which permit more days and longer days in the field, when necessary—tractors which are dependable under adverse weather conditions and supply economical power.

McCormick-Deering tractors are the result of over twenty years of successful tractor building experience. They are practical power units for every-day farm conditions. They provide the maximum amount of service and economy of operation.

McCormick-Deering tractor owners appreciate the keen satisfaction of accomplishing big farm jobs in a comparatively short time. They enter upon the day's work with justified confidence in the large, compact, yet easily controlled power unit. Day in and day out, throughout the year, McCormick-Deering tractors uphold their record of reliability for all farm power jobs. These tractors meet the demands of the peak loads, ever present in farm operations, with a surprising amount of reserve power.

Every feature found on McCormick-Deering tractors has withstood the test of time and practical service. Farmers who have selected these tractors are able to materially reduce their labor requirements.



Farmall Tractor

FARMALL TRACTORS 10-20 and 15-30

The Farmall is the practical power for planting and cultivating corn and other row-crops. Although several thousands of farmers doing all kinds of farming have found the ordinary Tractor profitable and practical, there are many others who have been waiting for a Tractor that will do all the work of the ordinary Tractor and, in addition, do the planting, cultivating, and mowing. The Farmall is the Tractor that they have been waiting for. It not only supplies an abundance of power for plowing, harrowing, harvesting, and haying, but it is so constructed that it will do the planting and cultivating of such crops as corn, potatoes, beets, beans, etc.

The Farmall is a triple-power Tractor supplying power on the drawbar, belt, and power take-off. The drawbar has a wide range of adjustment, both vertical and horizontal. Belt-pulley is located on the right-hand side of the Tractor in the operator's line of vision. The power take-off, which supplies the engine power direct to the pulled machine, is the regular equipment with the Farmall. Power take-off extends from the rear of the transmission and operates at all forward speeds. The steering mechanism enables short turns to be made quickly and at ease. In making short turns an automatic brake holds the inside wheel so that the Farmall can turn in a circle with an 8-foot radius.

THE FARMALL CULTIVATOR

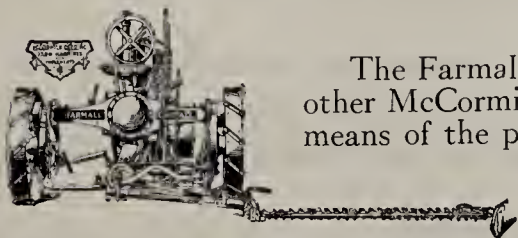
The Farmall 2-Row Cultivator will cultivate 25 or more acres a day, depending on the condition of the crop, and up to 60 acres with a 4-row outfit. This applies to corn, beets, beans, potatoes, and other row-crops commonly grown on a large-scale basis. The ability of the Tractor to turn in a circle of 8-foot radius eliminates wasteful turning areas at the ends of rows, and also makes it possible to cultivate all rows consecutively.



Farmall Cultivator

THE FARMALL MOWER

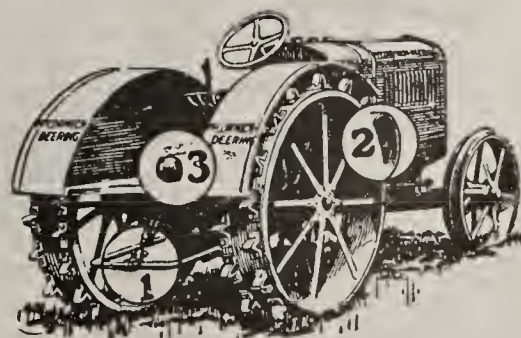
The Farmall Mower cuts a 7-foot swath and is built with the same high standard of construction as other McCormick-Deering Mowers. It is power driven by the Farmall engine through transmission by means of the power take-off. The cutter-bar is made of high carbon steel tempered in oil. Cut gears are used and are enclosed and run in a bath of oil. It can be attached in a few moments' time because the method of attaching is simple, one bolt only being used. Running at the usual cutting speed, from 25 to 30 acres can be cut in a day.



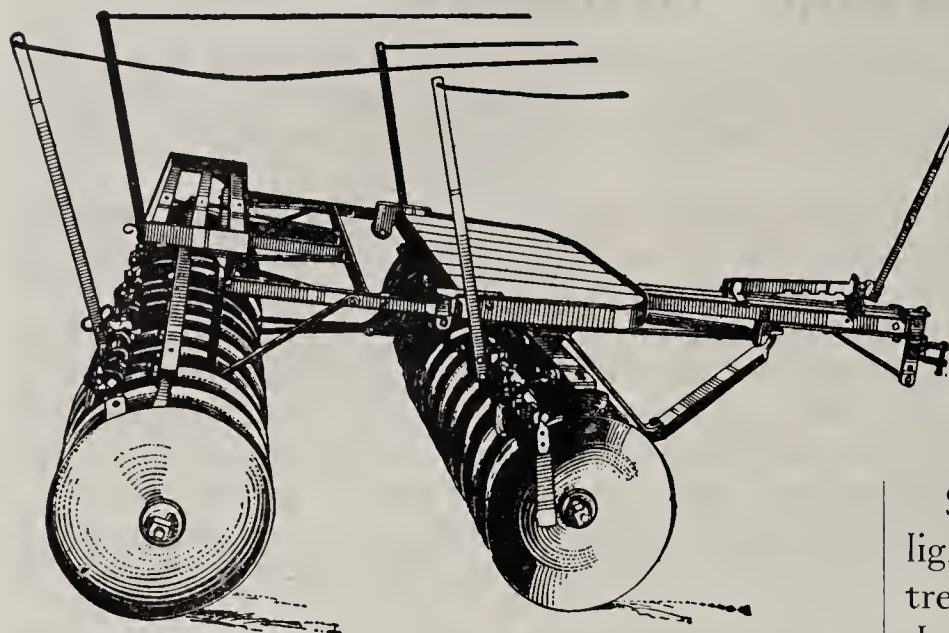
Farmall Mower

McCORMICK-DEERING 10-20 and 15-30 TRACTORS

The McCormick-Deering 10-20 and 15-30 Tractors are all one-piece main frame which prevents twisting, weaving, or warping and assures all bearings running in true alignment and the gears being in mesh. By this construction wear is reduced to a minimum and the use of chains eliminated. Unit construction is used throughout in the design and building of these Tractors. By unit construction is meant that all parts such as the engine, transmission, clutch, final drive, etc., are built as units and assembled in the main frame. Each unit can be removed, should occasion arise, without affecting the other units. This is a decided advantage in overhauling. Prices and descriptive matter of McCormick-Deering Tractors sent on request.



McCormick-Deering 10-20 Tractor



McCormick-Deering Tractor Disc Harrow

• McCORMICK-DEERING TRACTOR DISC HARROW

The McCormick-Deering Tractor Disc Harrow is built to stand up to the heavy work which a tractor-drawn harrow is likely to be called upon to do. The side and front frame are made of one piece of heavy steel securely riveted at the corners. The stub tongue comprises two steel angle bars, completing a front frame that is extremely strong and rigid. The rear frame consists of a rigidly braced and cross-braced horizontal frame securely attached to the heavy rear gang arch.

This harrow is built for long service and

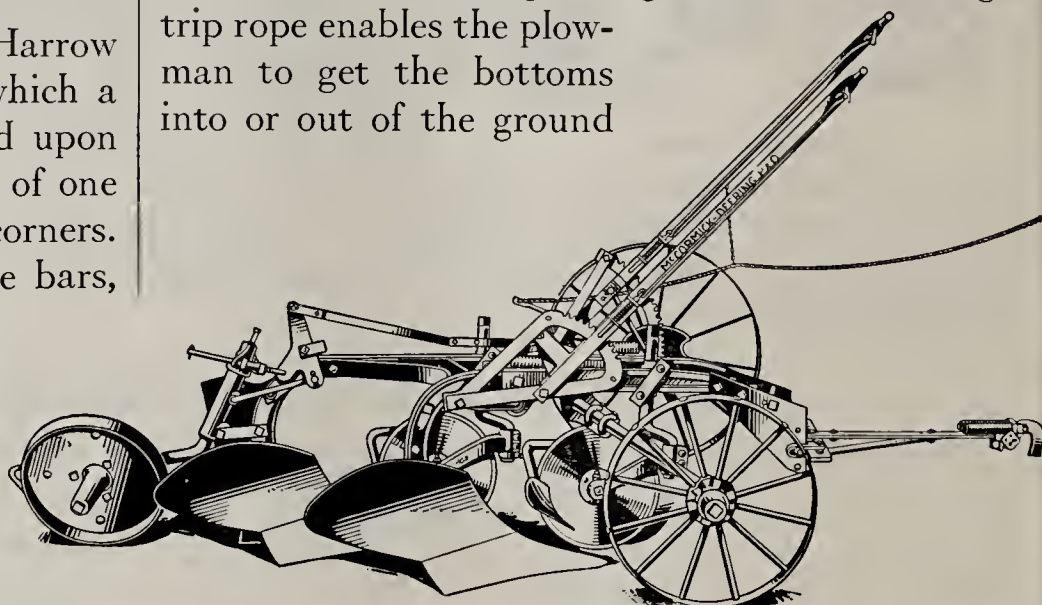
is so constructed that it is rigid while working but flexible when turning.

The McCormick-Deering Tractor Disc Harrow is built in 5-, 6-, 7-, 8-, 9-, and 10-foot sizes and equipped with 16- or 18-inch discs. There is a size to suit any tractor.

Ask for special catalogue and prices

McCORMICK-DEERING P. & O. TRACTOR PLOWS

Sturdiness and dependability are combined with light weight, light draft, and low price. Heat treating parts subject to strain, simplification of design, and the intelligent employment of material, placing weight only where necessary to strengthen, have produced in the McCormick-Deering a sturdy, efficient Plow that makes good under all reasonable plowing conditions. A single trip rope enables the plowman to get the bottoms into or out of the ground

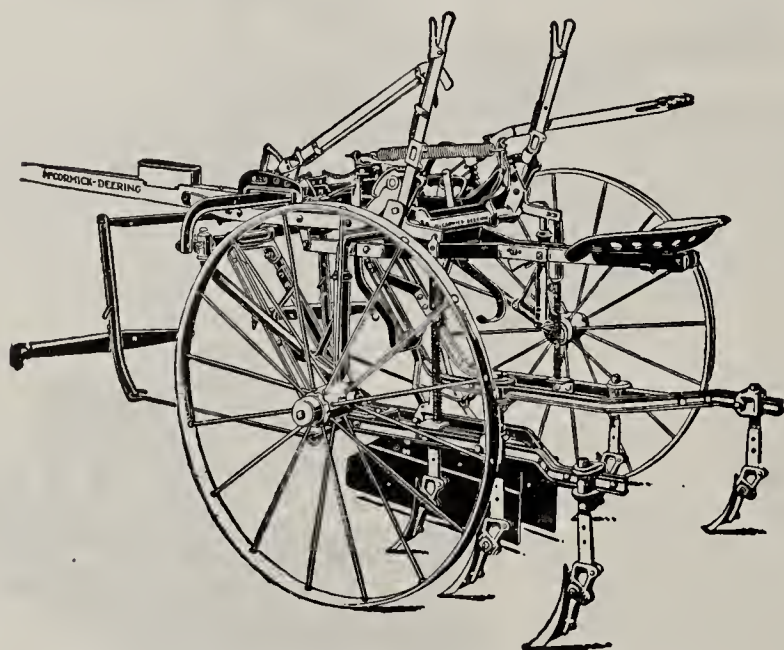


McCormick-Deering Tractor Plow

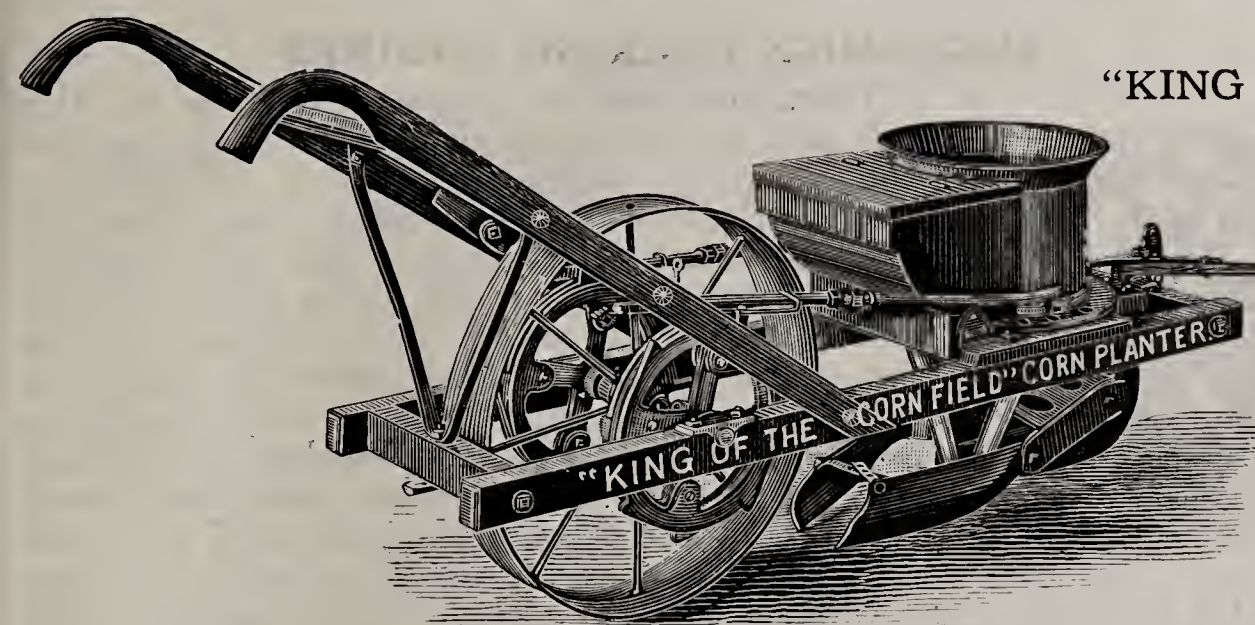
at will. Plenty of clearance between the bottoms, and under the beams, and under the bottoms when they are raised, enables this Plow to do good work in trashy ground.

The McCormick-Deering can also be supplied in a single-bottom 18-inch for corn-borer control. This Plow will plow as deep as 10 inches and do a wonderful job of covering. It has the same easy handling features as the other 2-bottom Plows, and this large bottom has sturdiness of construction of ample strength to meet the strains to which Plows of this size are naturally subjected.

Have our Demonstrator call on you. Special catalogue and prices on application



McCormick-Deering New 4-Pivot Axle Cultivator
For description see page 75



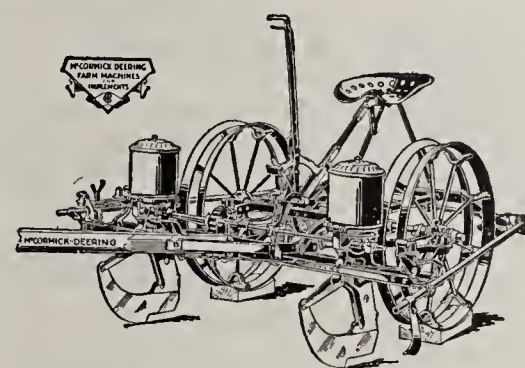
"KING OF THE CORNFIELD"
CORN, BEAN,
AND PEA PLANTER
AND FERTILIZER
DISTRIBUTOR

This Planter has proved itself perfectly adapted to every requirement; durable and simple in construction, not liable to get out of order, and anyone can at once understand and manage it.

McCORMICK-DEERING NO. 102 CHECK-ROW CORN PLANTER

McCormick-Deering No. 102 Planter covers every possible requirement for planting corn and is recommended where the utmost accuracy is required. Since the kernels vary more in their length and breadth than they do in thickness, the edge-drop plate, or, as it is sometimes called, the edge-selecting plate, naturally gives the greatest degree of accuracy. For ungraded corn, the flat-drop plates will probably give greater accuracy. The point is, however, that you can have edge-, flat- or full-hill-drop plates for your McCormick-Deering Planter. You can have full runner, stub runner or disc furrow-openers.

Equipment which can be supplied on special order includes plates for peas and beans, kaffir corn, milo maize, broom corn, soybeans—in fact, any seed you would be likely to want to plant with a Corn Planter. A fertilizer attachment can be supplied, also two-horse hitch and furrowing attachments (either disc or blade), and gauge shoes.



Automatic Check Heads, Rigid Front Frame and Fine Depth Adjustment

Seven connections between the front and rear rails of the front frame give a rigidity which absolutely prevents the drive shaft, clutch and other working parts from getting out of alignment. The front frame is further greatly strengthened by heavy pole braces which extend across the front frame and make both planter runners work at the same depth.

McCORMICK-DEERING POTATO PLANTER WITH FERTILIZER ATTACHMENT

The McCormick-Deering Planter embodies new features which add to its ability to plant cut seed and small whole seed with a high degree of accuracy.

It can be furnished either with or without the fertilizer attachment. The seed hopper holds about three bushels. A corrugated feed wheel in the bottom of the hopper works the

seed from the hopper into the feed chamber as needed. Improved picker arms catch the seed and convey it a piece at a time to the discharge boot, which conveys it to the furrow.

The furrow-opener and covering discs are raised or lowered together, and the planting mechanism is started or stopped automatically as they are raised or lowered.

REGULAR EQUIPMENT

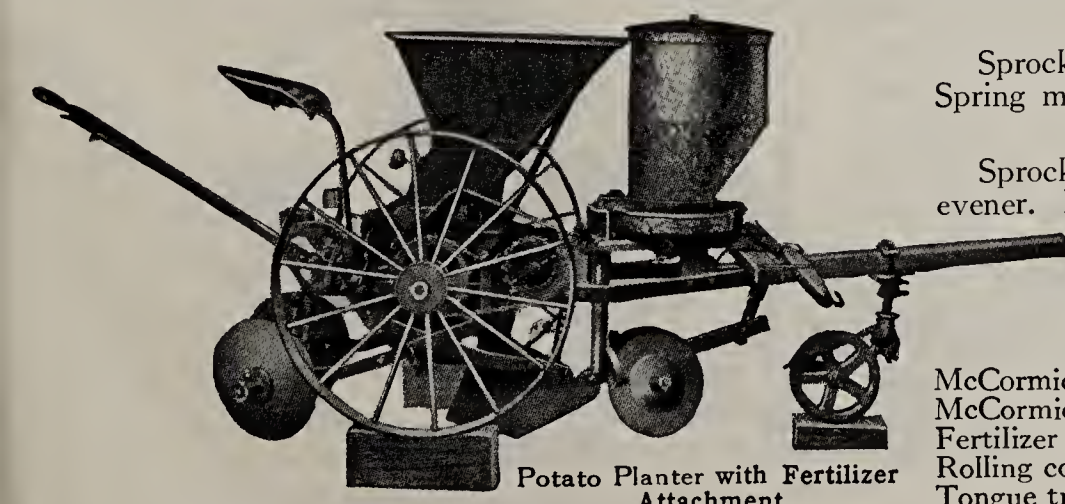
Sprockets for 13 and 15-in. spacing. Disc coverers. Spring marker.

EXTRA EQUIPMENT

Sprockets for 9, 11, 17 or 20-in. spacing. Two-horse evener. Neckyoke. Fertilizer attachment. Tongue truck. Rolling colter for plain planters.

SPECIFICATIONS

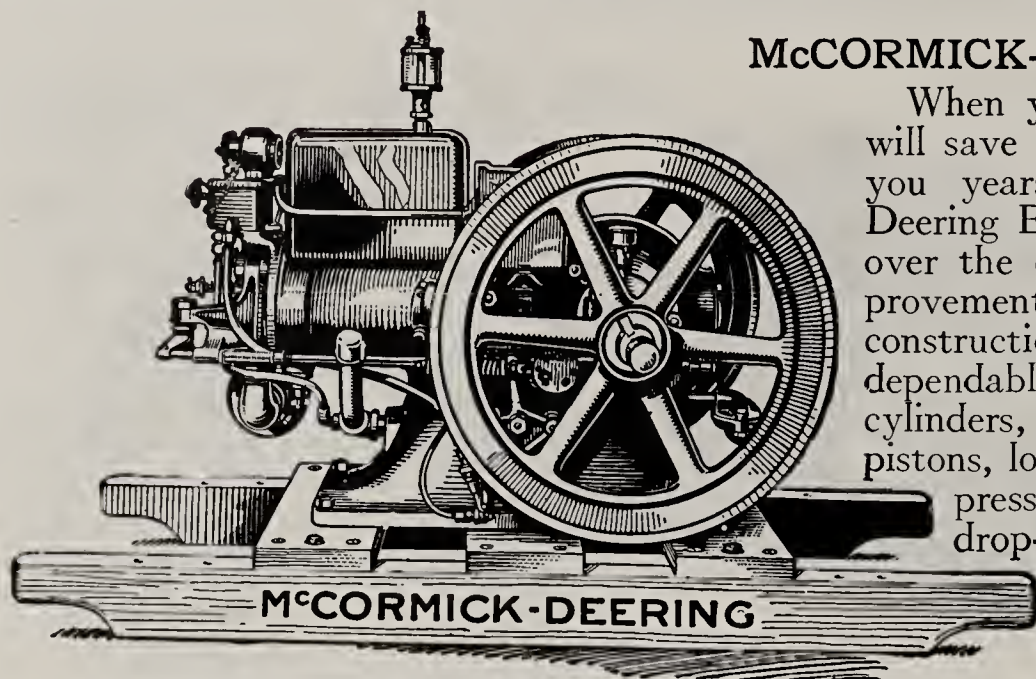
Description	Weight
McCormick-Deering Potato Planter.....	580 lbs.
McCormick-Deering Potato Planter, fertilizer attachment.....	735 lbs.
Fertilizer attachment (crated for shipment).....	230 lbs.
Rolling colter for plain Planter.....	20 lbs.
Tongue truck.....	40 lbs.



Potato Planter with Fertilizer Attachment



McCORMICK-DEERING ENGINES



McCormick-Deering Engines, 1½ and 3 H. P. Sizes

REGULAR EQUIPMENT

Magneto; Skids on 1½ and 3 H. P.; Skids on 6 and 10 H. P. when not portable; plain pulley.

A McCormick-Deering Engine will lighten your task and will save you many days of weary, hard work. Ask for special catalogue and prices.

When you select an Engine you want one that will save you money in doing your work and give you years of satisfactory service. McCormick-Deering Engines are doing this for their owners all over the country. Every year has seen some improvement which has added to the high quality of construction. Some of the special features on these dependable quality-made Engines are renewable cylinders, valve-in-head construction, close-fitting pistons, long connecting rods, which reduce the side pressure on the pistons to a minimum, strong drop-forged steel crankshafts, large well-made bearings, serviceable magnetos (no batteries are needed), simple hopper cooling system, throttle governor, strong completely enclosed one-piece crank-case, provided with handhole cover and plates which can be removed, thereby making the working parts easily accessible, serviceable oiling system, etc.

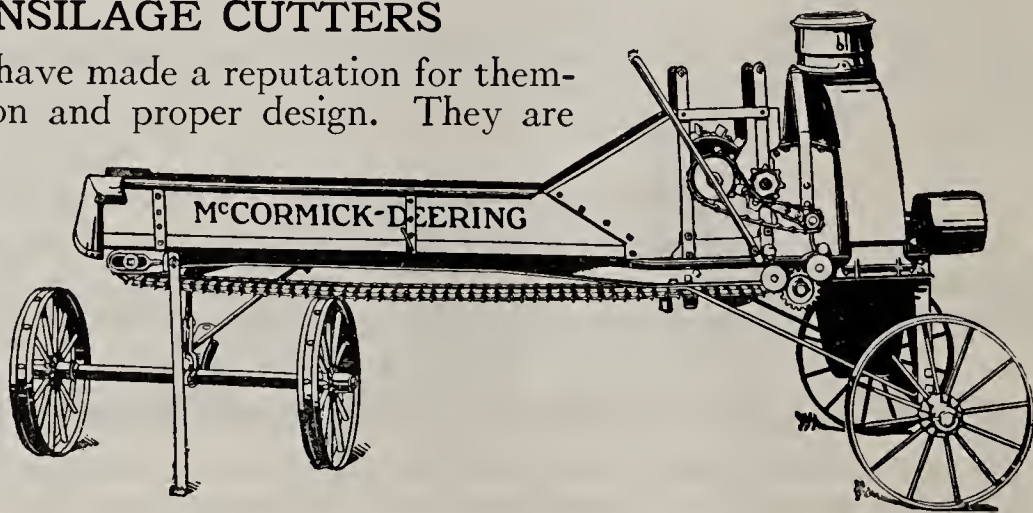
McCormick-Deering Engines are built in 1½, 3, 6, and 10 H. P. sizes.

McCORMICK-DEERING ENSILAGE CUTTERS

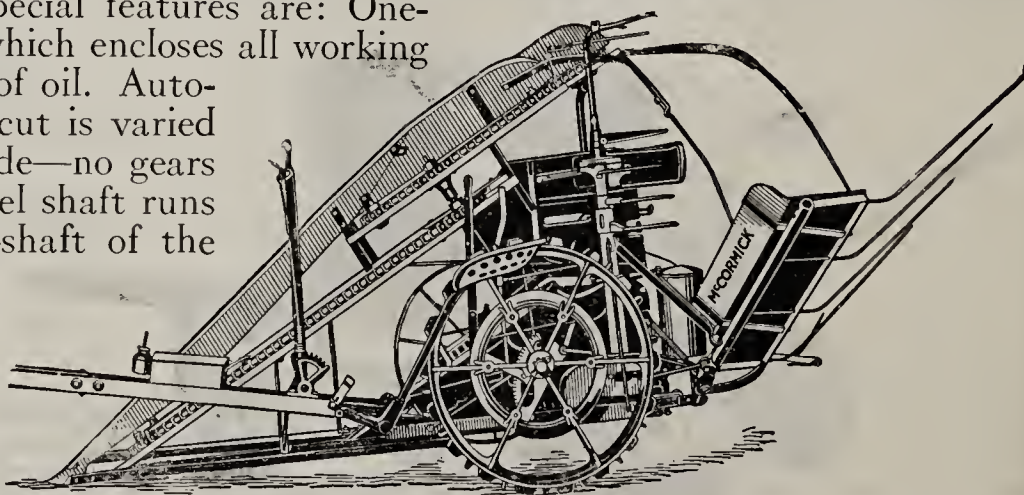
McCormick-Deering Ensilage Cutters have made a reputation for themselves because of their sturdy construction and proper design. They are built of high-grade materials throughout. Steel is used wherever it gives the best service.

There are many splendid features on McCormick-Deering Ensilage Cutters which make them popular with users. For instance, the substantial main frame, steel fly-wheel, knife-on-fly-wheel construction, shear cutting, high throw, large paddle roll, steel conveyor, high and wide feed throat, reversible cutter bar, splendid oiling facilities, and special safety features. Knives can be quickly changed.

Special attention is called to the new No. 12 Cutter which has set a new standard in Ensilage Cutter design, construction, and operation. Special features are: One-piece main frame, and transmission case which encloses all working parts and permits them to run in a bath of oil. Automobile-type transmission. The length of cut is varied by merely shifting a lever from the outside—no gears to change. Special bearings. The fly-wheel shaft runs in 4 high-grade ball-bearings, the worm-shaft of the transmission is mounted on roller bearings and the remainder of the transmission uses bronze bearings. Large cutting capacity. The capacity of the No. 12 exceeds that of any machine of equal weight, due to number of knives (4) and higher speed. Send for special circular and prices of these machines



McCormick-Deering Ensilage Cutter



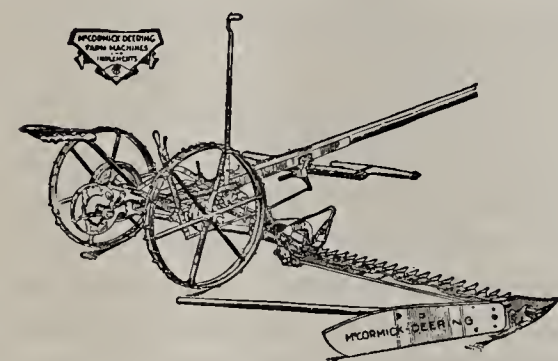
McCormick Corn Binder. See page 73

McCORMICK CORN BINDER

The McCormick Corn Binder is made to stand up and give long, satisfactory service under all field conditions. It is a light-draft machine, because it is made almost entirely of steel and all the important revolving parts, which are subject to any great amount of friction, are equipped with self-aligning roller bearings. Large lugs on the main wheel insure good traction and the machine cuts both heavy and light corn with equal facility.

The McCormick picks up down and leaning corn, follows rows easily, vital parts are easily accessible, elevator chains gather and hold stalks upright until bound, makes firm, squarely butted bundles, and the reliable knotter ties right every time. It binds tall or short corn. Every lever for the control of the machine while cutting corn in the field is within easy reach of the man on the seat. Ask for special catalogue illustrating and describing these machines.

Tongue, three-horse evener, and tools are regular equipment on McCormick Corn Binders. With high wages, the cost of cutting corn by hand is too great to be practicable. The McCormick Corn Binder will reduce the cost of cutting the corn and will bind it in bundles so that it is easy to handle.

McCORMICK-DEERING MOWERS

McCormick Mowers have a world-wide reputation for light-draft and easy-running qualities. They were the first machines of their kind to be equipped with ball and roller bearings. McCormick Mowers are made in three types: Regular lift, vertical lift, and giant or heavy-duty type. Strength has been built into the McCormick Mower frame where strength is needed. Water cannot accumulate about the butt of the pole and cause it to rot as the end of the pole is covered by the frame of the Mower. The first step in the transmission of the power

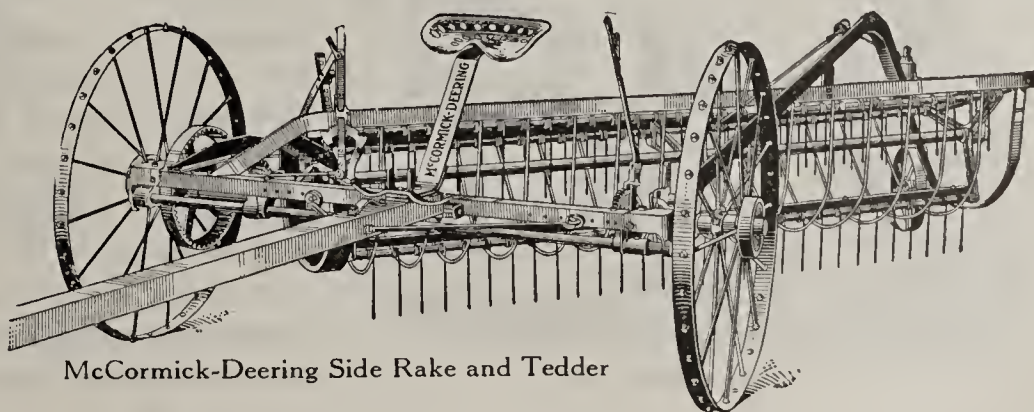
from the drive-wheels to the knife is through an internal gear and pinion. This is regarded as an unusually strong and efficient type of drive, because with the internal gear the greater part of two teeth is constantly engaged. The crankshaft retains oil. A wide hinge and rugged construction keeps the cutter bar in alignment. Drag-bar arrangement gives ample traction on rough ground.

Ask us for special catalogue, illustrating and describing these dependable Mowers

McCORMICK-DEERING SIDE RAKE AND TEDDER

The McCormick-Deering Side Rake and Tedder is instantly convertible from a Side Rake to a Tedder by changing the direction in which the reel revolves. One lever controls the direction in which the reel revolves, while another lever sets the teeth at the correct slant for raking or tedding. Roller bearings make the rake exceptionally light draft. The angle steel frame, the rigid bracing, including large truss beam running over the reel, the extra-heavy gears, heavy piping for reel, tooth bars, and the solid steel main axle gives this machine great strength. Reel ends can be raised or lowered to take care of varying conditions of hay or ground.

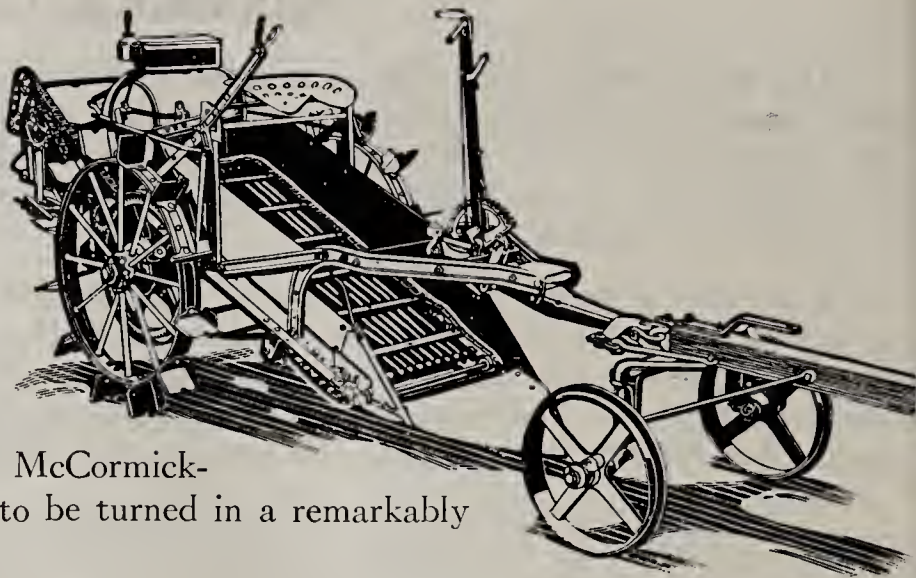
One caster wheel is regularly supplied with the McCormick-Deering Side Rake and Tedder. The pole is regular equipment. Neck-yoke, double-trees, and extra caster wheel may be had on special order at additional cost. A McCormick-Deering Side Rake and Tedder will often make it possible for you to cut hay and get it into the barn the same day. The one machine does two important jobs.



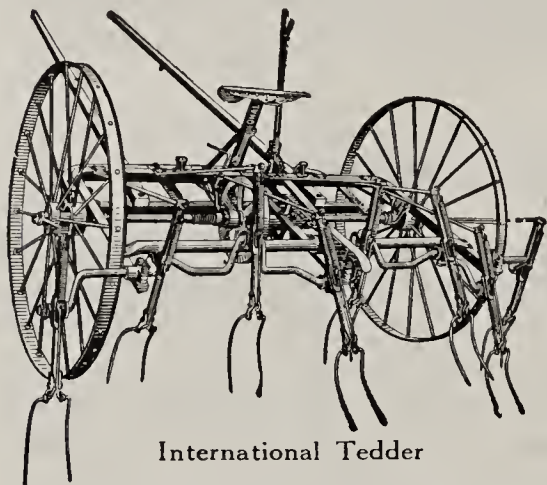
McCormick-Deering Side Rake and Tedder

McCORMICK-DEERING POTATO DIGGERS**No. 5 (Rear Shaker and Vine Turner)**

The No. 5 Diggers are equipped with rear shaker and vine turner. This equipment is best for normal digging conditions, as the vine turner deflects the vines to the side, leaving the potatoes in a clean neat row behind the digger. Where the soil is sticky or hard to shake out and an extra amount of agitation is required, the extension elevator adds about 3 feet of cleaning capacity and gives cleaner separation of the potatoes from the soil.



The specially designed tongue truck permits the McCormick-Deering Digger to be turned in a remarkably short space.



International Tedder

INTERNATIONAL TEDDERS

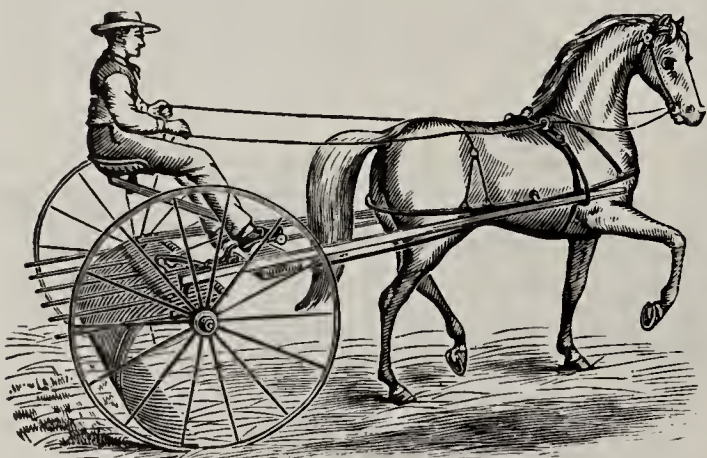
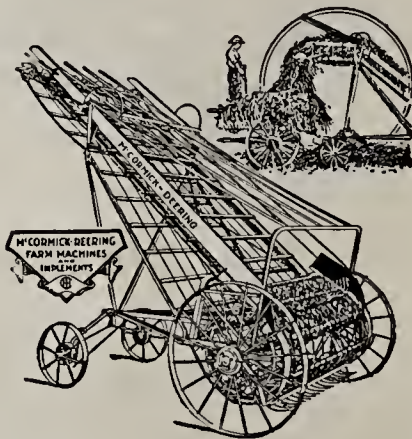
On International Hay Tedders the forks are provided with long coiled-steel springs which allow them to spring back when an obstruction is encountered. The springs also relieve the Tedder of the strain caused by the rapid movement of the forks. The power is applied from the center of the main shaft, distributing the strain equally over the entire Tedder. The forks have extra-wide bearings and the boxes are easy to remove. Springs between the main and thill frames absorb shock and vibration. Wheels are interchangeable. Clutch and balancing levers are within easy

reach of the driver. Seat is adjustable. Fork and main and crank-shaft bearings are supplied with oil-cups. Shafts can be converted into pole for two horses. Made in 6- and 8-fork sizes.

McCORMICK-DEERING ADJUSTABLE WINDROW HAY-LOADER

SUPPLIED WITH EITHER SINGLE OR DOUBLE CYLINDER

These gearless Hay-Loaders are made in one width only, and are also equipped with an adjustable section so that hay can be delivered 3 feet nearer the rack when starting the load, but the side boards do not fold. The gearless Hay-Loader picks up hay from the swath as well as the windrow. One man can operate it, if necessary, thus doing without a rake.



Yankee Horse Rake

THE YANKEE HORSE RAKE

Some of the leading points of superior excellence found in the Yankee Horse Rakes: Simplicity of construction and facility of management; adaptability to any and all conditions of surface and crops; operated by the power of the horse and the driver's feet; the rake-head is hung so as to balance the teeth; teeth running level with the ground at their points; has more teeth (which are hung nearer together) than any other Rake; all the teeth inserted and removed in less than two minutes' time, without disturbing any bolts; each tooth independent and supplied with a yielding spring that will permit the tooth to pass safely over any obstruction that the axle will pass.

McCORMICK-DEERING NEW 4-PIVOT AXLE CULTIVATOR

With 6-shovel, Steel-Beam, Pin-Break, Slotted Shank Gangs, Pictured on page 70

The McCormick-Deering New 4-Pivot Axle Cultivators are adaptable to all row crops and can be supplied with a wide range of gang and shovel equipment. Each gang has a double steel beam connected by broad couplings to a movable steel bar which is suspended from a steel I-beam riding on two long rollers, one at each side of the frame. As the gangs are shifted by pressure on the foot

pedals their weight moves on these rollers and almost no effort is required to control them, even in crooked cross cultivation.

Ask us for prices and special catalogue describing the McCormick-Deering New 4-Pivot Axle Cultivator, the gang and shovel equipment and fertilizer attachment.

McCORMICK-DEERING SPREADER

A well-built, durable Spreader of the finest workmanship, so light in draft that it requires only two horses. The box is just the right height from the ground for easy loading. In order to produce best results, manure must be well shredded and uniformly spread, and this the McCormick-Deering does to a surprising degree. Two steel beaters pulverize the manure, after which it receives a third beating and is spread out evenly beyond the wheels by the widespread spiral. Unevenly spread manure or lumps interfere later with the proper plowing or cultivation of the field. It has six conveyor speeds and eight roller bearings; spreads so evenly that manure does not interfere when working the ground with other machines and so thinly that it will not interfere with the

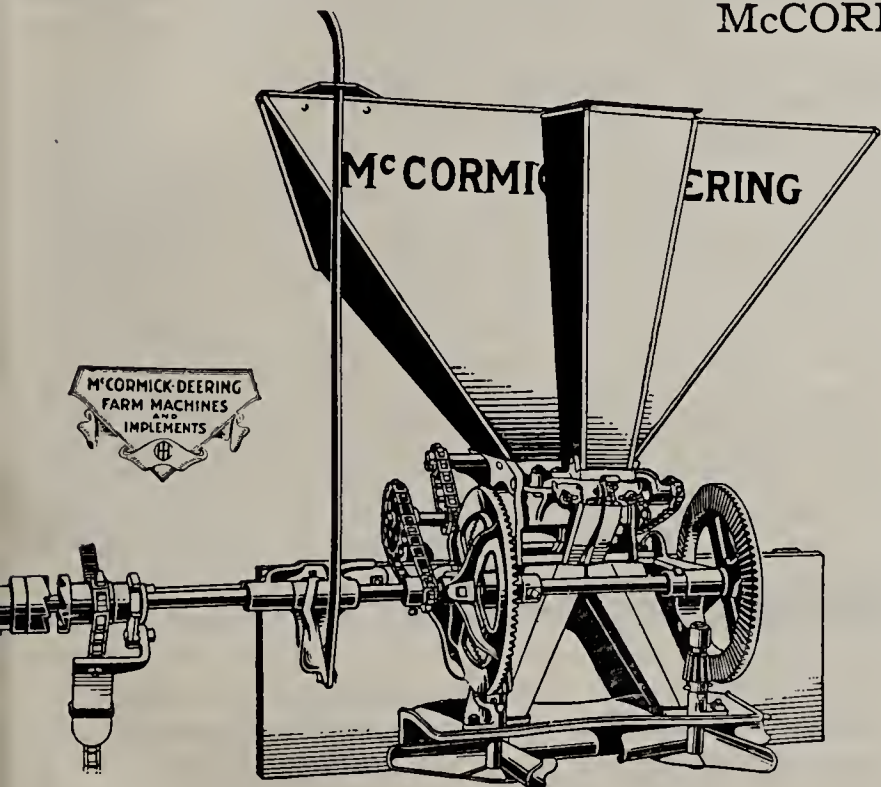


McCormick-Deering Spreader

pasturing of stock; permits spreading after seeding or planting, or can be used to top-dress the meadow or pasture without choking down the grass or grain; can be operated by a boy just as well as by a man, and it has an auto-steer front truck.

The Spreader weighs approximately 1375 pounds, with a capacity as ordinarily loaded of $57\frac{1}{2}$ to $67\frac{1}{2}$ bushels. The box is 18 inches deep.

McCORMICK-DEERING END-GATE SEEDER



McCormick-Deering End-Gate Seeder

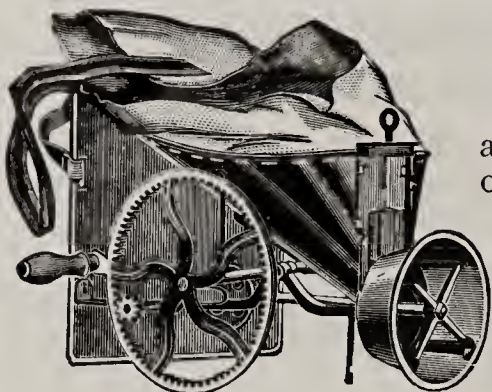
This is the best and most practical End-Gate Seeder built. The extra-large grain-hopper is easy to fill because it slants toward the operator and over the wagon-box where no seed will be wasted. The supplementary grass seed-hopper can be supplied for use in sowing grass and clover seeds.

Width of distribution for oats is from 36 to 40 feet; wheat, 42 to 52 feet; timothy, 20 to 24 feet; clover, 24 to 28 feet.

REPAIR SERVICE

It is our endeavor to carry at all times a full line of replacement parts for the machines we sell, thus trying to avoid vexatious delays to our customers in supplying parts needed. It is our policy to stock only GENUINE REPAIRS made by the makers of the original machines, realizing that imitation parts, which many times are cheaper, yet they may be of a different composition from the original and sometimes they do not fit so well. The result is poor service and injury to the other parts. Feel free at any time to call on our Repair Department if you have any repair trouble.

Check over your machines NOW and get the parts at once. Thus you are sure to have your machines in running shape when you need them



Cahoon Seed Sower

CAHOON SEED SOWER

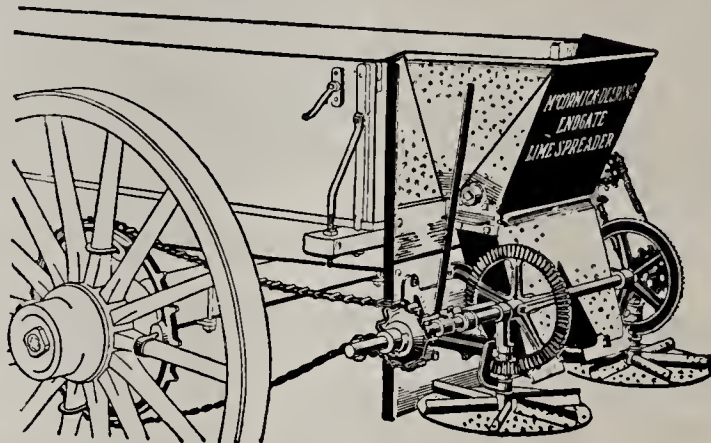
For Sowing Wheat, Barley, Oats, Buckwheat, Rye, Grass, Seed, Etc.

Sows from 4 to 8 acres per hour at a common walking gait throwing out wheat a distance of 40 feet wide. These machines are the acknowledged superior of all others of their class, and by their use a saving of four-fifths the labor and one-third the seed can be effected. A person entirely unused to sowing by hand can use this machine with perfect success.

McCORMICK-DEERING ENDGATE LIME SPREADER

The McCormick-Deering Endgate Lime Spreader is quality-built throughout. It will stand up under hard usage and will serve efficiently under almost all spreading conditions.

The essential features of the McCormick-Deering Endgate Lime Spreader are simplicity, durability, wide sowing range, and a non-clog feed. The extreme simplicity of the McCormick-Deering appeals to the user of farm machines. It means long life at exceptionally low operating cost. It means less deadweight to move over the ground. It means lighter weight and lighter draft without sacrificing needed strength.



ONE-HORSE NONPAREIL LIME AND FERTILIZER SOWER

This one-horse machine was especially designed to meet the growing demand for a machine of this kind. It is the biggest little Sower manufactured, having a sowing swath of only 5 feet, 10 inches, but a capacity of 10 bushels. It has a wide sowing range and will take care of all the different kinds of agricultural lime and commercial fertilizers. This machine is equipped with both cover and screen, $\frac{5}{8}$ inch mesh. Wheel-guards are also supplied to prevent vines and shrubbery from winding in the wheels.

Nonpareil Sowers will distribute successfully every known kind of agricultural lime and commercial fertilizer used on the farm, providing it will pass through the screen into the hopper of the sower. Commercial fertilizer is perhaps the hardest material to sow successfully, and unless it is absolutely dry it is impossible to sow in a satisfactory way less than 600 pounds to the acre.

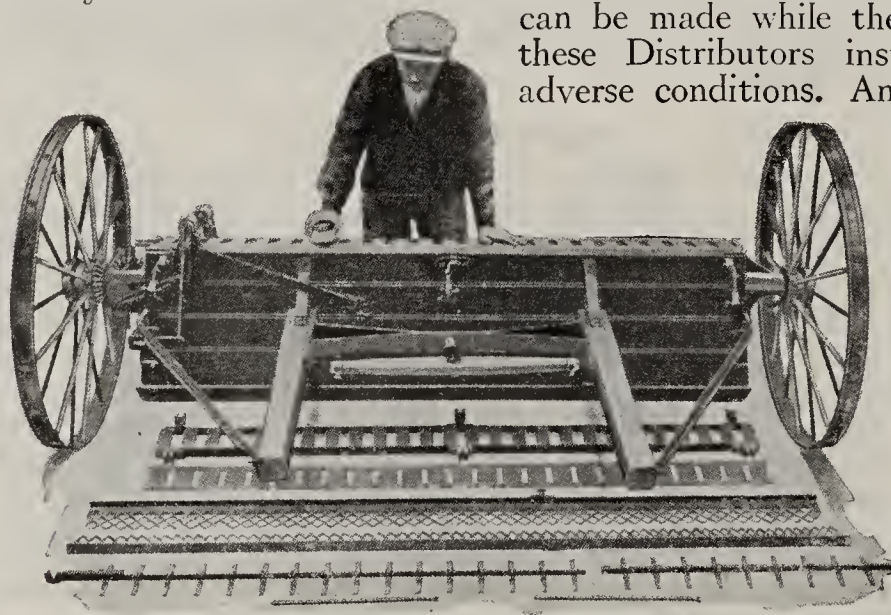
Wet or damp material is very hard to sow with any degree of success and we do not recommend Nonpareil Sowers for this work. But they are guaranteed to work successfully when material is in fit condition to be put through a sower.



McCORMICK-DEERING FERTILIZER DISTRIBUTORS

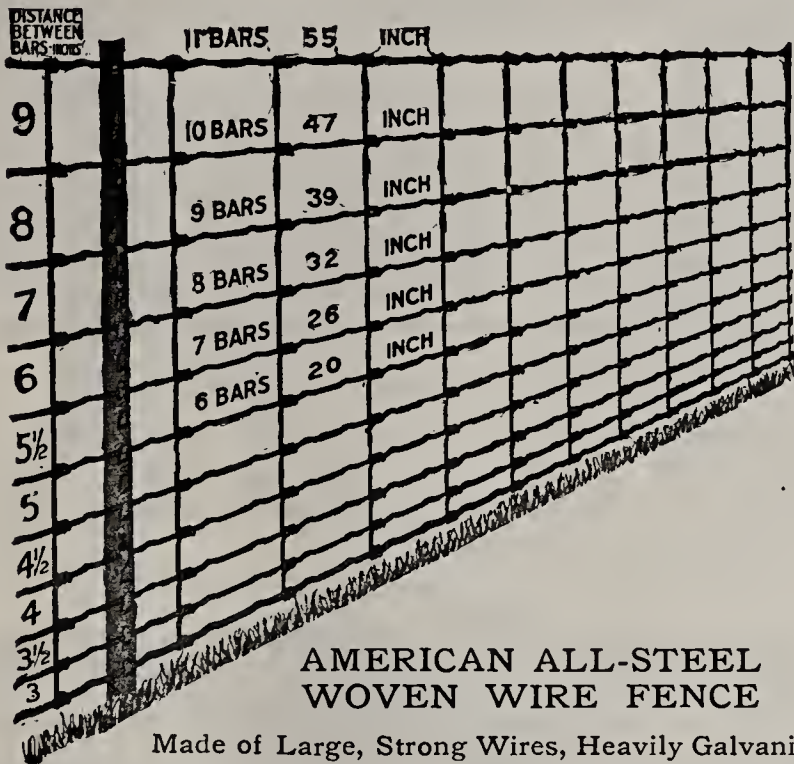
TWO SIZES, 7- AND 9-FOOT

McCormick-Deering Fertilizer Distributors represent the most advanced and practical ideas in Distributor construction. They are sturdily built, light in draft, and simple to adjust and operate. They will distribute evenly all kinds of commercial fertilizers and in quantities of approximately 10 to 2,350 pounds. Adjustments can be made while the machine is at work, if desired. The force-feed on these Distributors insures positive and uniform distribution under highly adverse conditions. Another very desirable feature is that the distributing



parts of the machine can be taken completely apart, cleaned, and reassembled in from five to ten minutes' time. Cleaning the machine eliminates unnecessary mixing of different fertilizers and prevents corrosion caused by allowing the fertilizer to remain in the machine. The bottoms are lead-coated, to resist the corrosive action of the fertilizer, and all oil-holes have capped oilers to prevent dirt and fertilizer from getting into the bearings. Another important feature is that they can be used as broadcast seeders for sowing the common varieties of grain, such as wheat, oats, barley, etc. The seed is distributed evenly and in varying quantities desired. Sowing-table sent with each machine.

WIRE FENCING



AMERICAN ALL-STEEL WOVEN WIRE FENCE

Made of Large, Strong Wires, Heavily Galvanized

AmPLY provides for expansion and contraction. Only best Bessemer steel wires used. Always of uniform quality. Never goes wrong, no matter how great a strain is put upon it. Does not mutilate, but does efficiently turn cattle, hogs, and pigs.

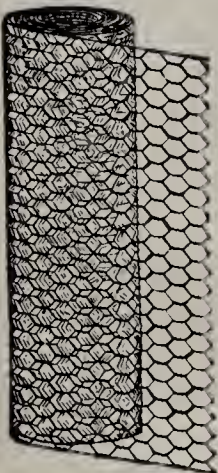
Every rod of American Fence guaranteed by the manufacturers. Call and see it. Can show you how it will save you money.

No.	Inches high	12-inch stay Price per rod	6-inch stay Price per rod
845	45	Farm Market Price	Farm Market Price
1047	47	Farm Market Price	Farm Market Price
1155	55	Farm Market Price	Farm Market Price
832	32	Hog Market Price	Hog Market Price
939	39	Hog Market Price	Hog Market Price

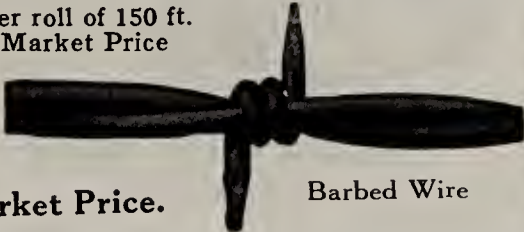
POULTRY NETTING

- No. 19 and 20 Wire, 2-in. mesh, 1 foot high.
- No. 19 and 20 Wire, 2-in. mesh, 2 feet high.
- No. 19 and 20 Wire, 2-in. mesh, 3 feet high.
- No. 19 and 20 Wire, 2-in. mesh, 4 feet high.
- No. 19 and 20 Wire, 2-in. mesh, 5 feet high.
- No. 19 and 20 Wire, 2-in. mesh, 6 feet high.
- No. 20 Wire, 1-in. mesh, 1 foot high.
- No. 20 Wire, 1-in. mesh, 2 feet high.
- No. 20 Wire, 1-in. mesh, 3 feet high.
- No. 20 Wire, 1-in. mesh, 4 feet high.

Per roll of 150 ft.
Market Price

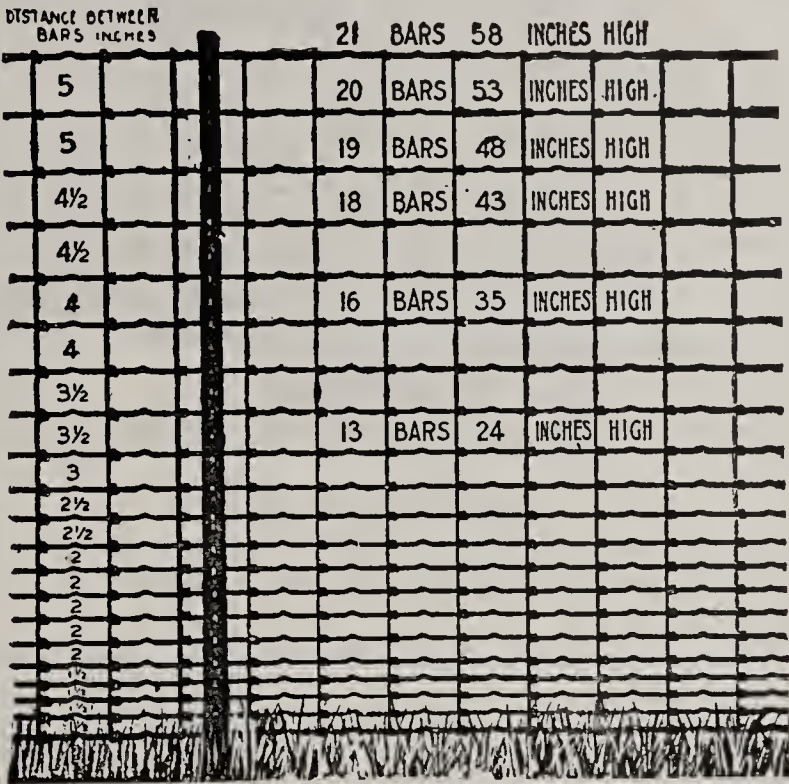


Poultry Netting



Barbed Wire

BARBED WIRE. Market Price.

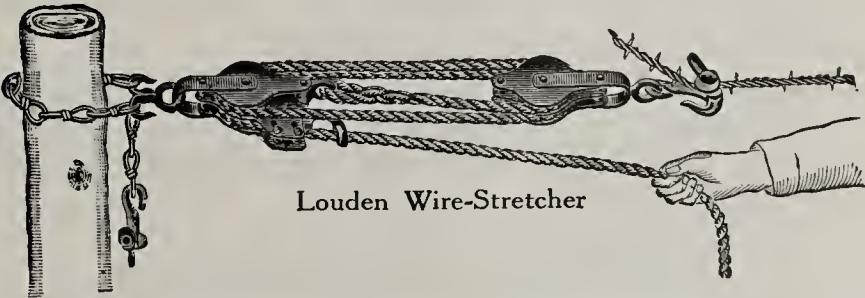


NEW AMERICAN POULTRY FENCE

This is a fence, not a netting, and, as now made, is, without doubt, the best on the market, adequate for all requirements, in fencing against poultry, large and small. Hence, for poultry-yards, gardens, orchards, etc., it is a great favorite. Stays are 6 inches apart. Spacing from 1 1/2 inches at the bottom to 5 inches at the top. Top and bottom bar, No. 11 wire; intermediate bars, No. 13 wire; stays, No. 14 wire.

The fence costs but little more than the ordinary netting, and in all ways is far superior.

No. 1948. 6-inch stay..... Market Price
No. 2360. 6-inch stay..... Market Price



Louden Wire-Stretcher

LOUDEN WIRE-STRETCHER

For Stretching Wire. Double-tackle block power stretches barbed or plain wire as tight as a fiddle-string. Equipped with better than ordinary wire eccentrics—ground and fitted. Holds the wire in a grip that cannot slip.

For Hoisting. Enables one man to change wagon-boxes, lift gas engines, and handle heavy loads easily. A handy helper which soon pays its cost in time and labor saved. Saves time, labor, and heavy lifting.

HEX PRODUCTS

- HEXNITE NO. 40.** This is a specially prepared tar-base paint and contains no asphalt, petroleum, asphaltum, or any deleterious ingredient injurious to the roof. It can be applied as it comes in the can, without heating or mixing with any other material, and will spread evenly and smoothly, set up rapidly, and dry out smooth and glossy. Gal. \$1.
- HEXEMENT-PLASTIC.** Heavy, thick material intended for flat surfaces and also for perpendicular surfaces. Apply with a trowel. Gal. \$1.

LAWN FENCE AND GARDEN GATES

Style "F" fabric is sanitary and attractive. It opens up the view, making gardens, lawns, and playgrounds possible.

Pickets are all No. 9 heavily galvanized wire, woven perfectly even, chicken-tight, and spaced $2\frac{7}{8}$ inches apart at the top and $1\frac{3}{8}$ inches at the bottom.

Best heights are 36, 42, and 48 inches. Market price.

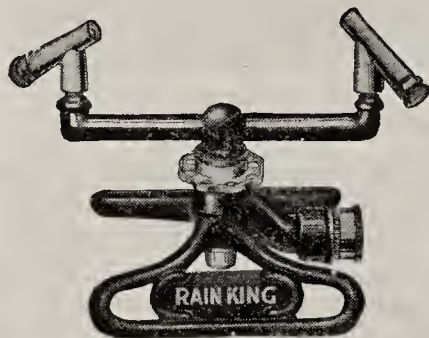
GARDEN GATES

Low-priced, strong, durable.

36, 42, and 48 inches are popular heights.

Market price.

Write for prices on 8-, 10-, 12-, 14-, and 16-foot Farm Gates.

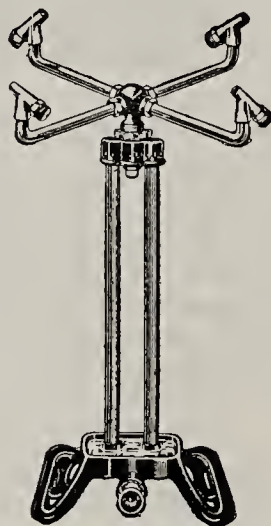


Standard Rain King

RAIN KING SPRINKLERS

Standard Rain King. Has a sprinkling-range of from 4 to 45 feet. Sprinkles two directions at once, or concentrates wherever water is wanted. \$2.25.

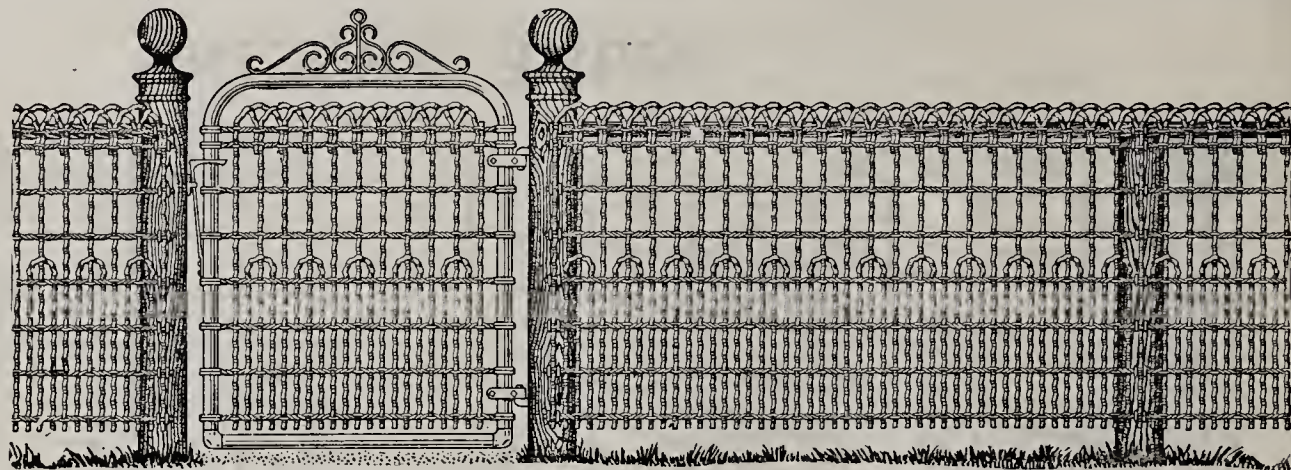
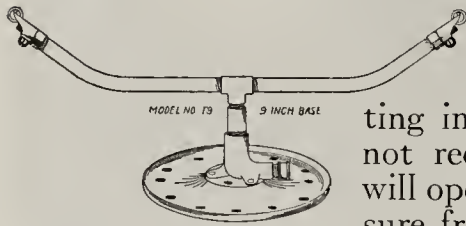
Majestic Rain King. Built a little heavier than the Standard. Has a sprinkling-range of from 5 to 50 feet, and throws spray well out over the tops of near-by plants. \$5.



Majestic Rain King

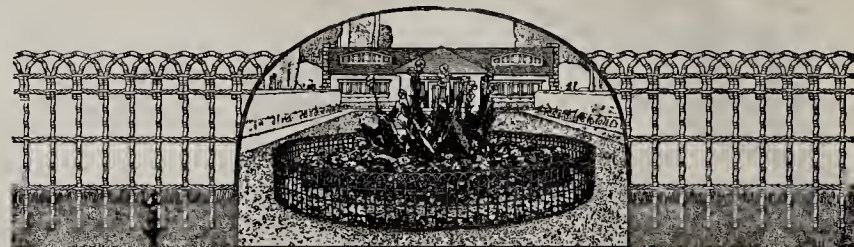
THE PERFECTION SPRINKLER

This Sprinkler was developed to overcome the dangers of over-watering golf-greens, fairways, parks, etc. Also the opposite danger of spotty irrigation—drying in some spots and wetting in others. High pressure is not required, and the Sprinkler will operate perfectly at any pressure from 10 to 60 pounds. The sprinkling area that can be covered is circular—40 to 100 feet diameter, according to the pressure. Send for full descriptive circular. No. 1, \$11.50.



FLOWER GUARD

Protects flower-beds in lawns, parks, and boulevards. Keeps out children, also chickens, dogs, cats, etc. Fabric may be cut to any desired length to fit any shape or size of flower-bed.



Pickets No. 9, cables No. 13 heavily galvanized wire. Made in two heights, 16- and 22-inch. Market price.

THE RIP SPRINKLERS



The Rip (Spike Type), with only three parts (one moving part), is the last word in perfected Sprinklers. Will throw as wide a spread as any Sprinkler on the same pressure. Priced low due to simplified design, and owners of the smallest gardens and grass-plots can now afford a real Sprinkler. Gives an even spread of water in natural, rain-like spray. Does not waste water through leakage. It may be choked with sand but it will clean itself out. \$1.

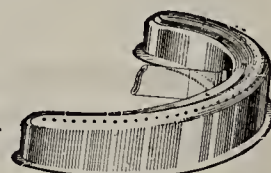
ARMSTRONG ORIGINAL FOUNTAIN



Sprinkles a full circle with mist-like spray. No moving parts. Simple and efficient. 75 cts.

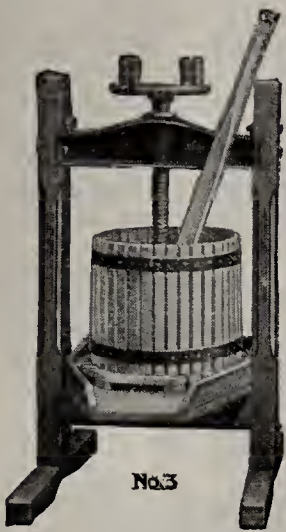
ARMSTRONG HALF FOUNTAIN

Sprinkles the lawn, not the sidewalk. Pick it up without shutting off the water. 50 cts.



Goods delivered without extra charge locally. Orders by mail or telephone receive the same attention as a personal order

RED CROSS LINES

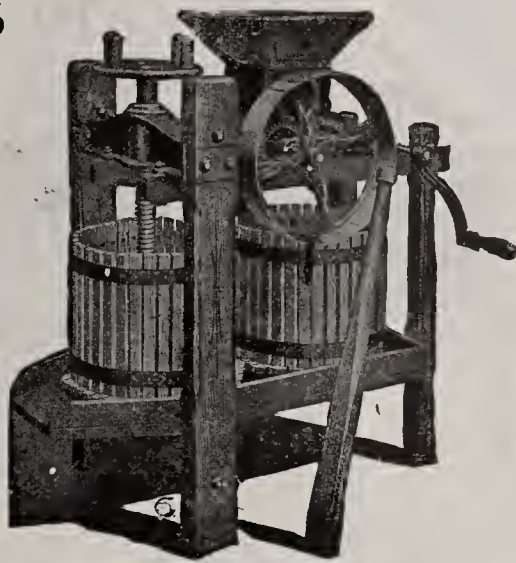


No. 3



SELF FEED MILL

Force-Feed One-Tub Mill



Senior Two-Tub Mill

RED CROSS WINE AND FRUIT PRESSES

	Size of screw	Size of tub outside	Weight
No. 1.....	1 1/8 x 18 3/4 in.....	12 x 10 in.....	72 lbs.
No. 2.....	1 1/2 x 20 1/2 in.....	14 x 12 in.....	99 lbs.
No. 3.....	2 x 23 1/2 in.....	19 x 22 in.....	167 lbs.

All have Heavy Iron Crosshead and Cold Rolled Steel Press-Screw.

CARBOLA
The Disinfecting White Paint

Paints and Disinfects~
Dries White

Use as a Paint or Powder

Spray it - Brush it
Dust it

The Same High Quality Product in a New Package Adopted 1924

RED CROSS CIDER MILLS

	Size of tub outside	Weight
Force Feed, 1 tub.....	14 x 12 in.....	140 lbs.
Junior, 2 tubs.....	12 x 10 in.....	190 lbs.
Medium, 2 tubs.....	12 x 12 in.....	235 lbs.
Senior, 2 tubs.....	19 x 22 in.....	345 lbs.

Capacity: Force Feed, 2 bbls. per day; Junior, 4 bbls.; Medium, 6 bbls.; Senior, 12 bbls.

The Senior is equipped with two cranks for hand operation and a heavy pulley for power.

Ask for general descriptive catalogue of these and the larger Mills. We will be pleased to quote the lowest market price at any time.

CARBOLA

Carbola is not a lime, not a kalsomine, not a whitewash, but a powerful disinfectant that dries white. It is non-caustic and absolutely non-poisonous. It will not harm man, beast, or fowl, but it controls lice, mites, nits, fly-eggs, etc., and disease germs and their spores with which it comes in contact. Carbola comes in powder form, ground so fine that 99 1/2 per cent will pass a 200-mesh screen, so it may be applied with either a brush or a sprayer. When mixed with either hot or cold water to the consistency of rich cream, it forms a perfectly blended, smooth, fine, spreading paint. One gallon will cover about 200 square feet. There is no waiting, straining, or bother of any kind in its preparation; it is ready for use as soon as it is mixed with water.

5-lb. pkg.....	\$0 75	25-lb. pkg.....	\$2 75
10-lb. pkg.....	1 25	50-lb. pkg.....	5 00

POULTRY REMEDIES AND SUPPLIES

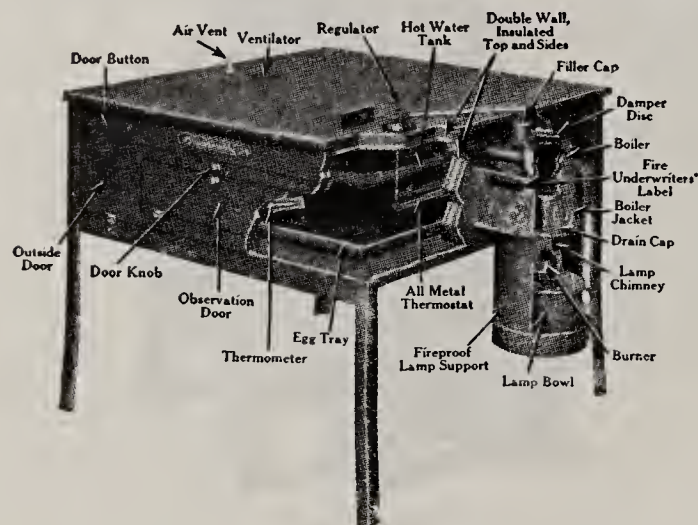
- CONKEY'S POULTRY REMEDIES**
Conkey's Old Reliable Powder. 25 cts., 50 cts., and \$1 each.
Conkey's Pills. 25 cts., 50 cts., and \$1 each.
Conkey's Diatex. 25 cts., 50 cts., and \$1 each.
Conkey's Salvo. 25 cts., 50 cts., and \$1 each.
Conkey's Balmo. 50 cts. each.
Poultry Worm Remedy. 25 cts. and 50 cts. each.
Scaly Leg Remedy. 25 cts. each.
Head-Lice Ointment. 10 cts. and 25 cts. each.
Conkey's Y-O. 50c., 90c., and \$1.60 each.
- DR. HESS' POULTRY REMEDIES**
Pan-a-min. 50 cts., \$1, \$2, and \$3 each.
Poultry Ver-mi-trol. \$1.25 and \$2.75 each.
Dr. Hess' Poultry Tablets. 50 cts. and \$1 each.
Instant Louse-Killer. 25c. and 50c. each.

- PRATT'S POULTRY REMEDIES**
Poultry Regulator. 50 cts. each.
Powdered Lice Killer. 25c. and 50c. each.
R-P Tablets. 25 cts., 50 cts., and \$1 each.
Chick Tablets. 25 cts. and 50 cts. each.
Poultry Disinfectant. 60 cts., \$1, and \$1.60 each.
Condition Tablets. 25 cts. each.
Head-Lice Ointment. 30 cts. each.
Sore Head Chicken-Pox Preparation. 60 cts. each.
N K Poultry Worm Tablets. Adult size (50 tablets), \$1, 100 tablets \$1.75, 500 tablets \$7. Chick size (50 tablets), 65 cts., 100 tablets \$1.

Send for Our Special Poultry Supply Catalogue

- WIRTHMORE.** Gritless Chick-Feed. Intermediate Chick-Feed. Growing Feed with Buttermilk. Scratch-Feed. Mash with Buttermilk.
- LEE'S GIZZARD CAPSULES.** Adult size (50 tablets), \$1, 100 tablets \$1.75, 250 tablets \$4, 500 tablets \$7, 1,000 tablets \$12. Chick size (50 tablets), 50 cts., 100 tablets 90 cts., 250 tablets \$2, 500 tablets \$3.50.
- Drew Chick-Founts.**
Felker's Chick-Founts.
Moe's Chick-Founts.
Sexton and Felker's Poultry-Founts.
Earthenware Founts.
Sexton Chick-Feeders.
Moe's Chick-Feeders.
Felker's Chick-Feeders.
Felker's Poultry-Feeders.
Moe's Poultry-Feeders.

BUCKEYE INCUBATORS



top constructed to prevent waste of heat. While this model does not bear the Underwriter's Label, it is provided with a safe, reliable lamp and heating system. All Buckeye Incubators, except the No. 65, are equipped with Automatic Egg-turning Trays.

	Capacity	Weight	Each
No. 65	75 hen eggs	53 lbs.	\$18 50
No. 66	143 hen eggs	122 lbs.	39 50
No. 67	286 hen eggs	186 lbs.	57 75
No. 68	416 hen eggs	222 lbs.	76 50
No. 69	576 hen eggs	290 lbs.	97 50

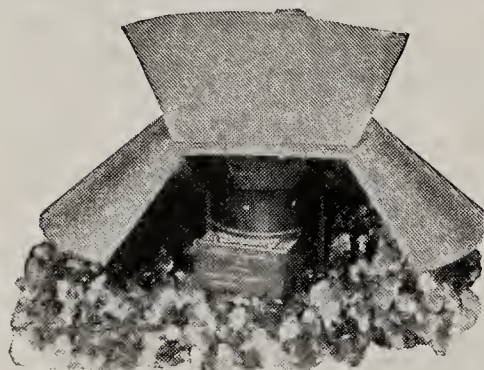
Buckeye Incubators are the result of over thirty-five years of study and experiment, and they include today every possible device for the promotion of the highest efficiency in incubation. They will hatch more and better chicks than any other Incubator in the world. The top and sides of the four larger Incubators have two walls of lumber with one thickness of insulation. Plywood is used exclusively in the cases of the Buckeye Incubators, and will withstand all kinds of atmospheric changes without the slightest danger of warping, splitting, or pulling apart. It will not retain the odors of hatches. The hot-water circulating tank is of pure copper—it will never rust or corrode. The automatic regulator is the most perfect device of its kind ever invented—it assures the uniform temperature essential to proper incubation at all times. The lamp supplied on the four larger sizes bears the label of the Insurance Underwriter's Laboratory, and assures you of getting an Incubator that is fireproof.

The Model No. 65 is a smaller Incubator, built for beginners and specialty breeders, and of plywood construction, with walls and



Buckeye Coal-Burning Colony Brooder

The Buckeye Stove has been proved to be one of the most efficient Coal-burning Brooder Stoves ever devised. An accurate double-wafer thermostat assures uniform temperature at all times, holds an even-fire, and prevents it from going out. No matter how low or how suddenly the temperature outside drops, the Buckeye has abundant capacity to care for all the chicks. It keeps them warm, comfortable, and thriving. It prevents chilling, crowding, and smothering. And it not only provides plenty of heat under the hover, but it also keeps the room warm for many feet around.



	Capacity	Weight	Each
No. 117	350 chicks	75 lbs.	\$15 00
No. 118	500 chicks	98 lbs.	17 50
No. 119	1,000 chicks	135 lbs.	22 50



Buckeye Coal Burner

The Newtown Colony Brooder

Don't be content with ordinary brooders. They are the most expensive kind. You can't afford them. There is no comparison between Newtown and other type brooders. Regardless of the type of other brooders, you get more chick-raising ability and greater satisfaction, dollar for dollar, in a Newtown coal-burning brooder than in any other kind ever built. That's a fact. Comparisons prove it.

No. 11	500 chick capacity, 50-inch diameter	\$32 50
No. 12	1,000 chick capacity, 56-inch diameter	40 00

Certain-tee

Quality
Cert-ified

Roofing

Durability
Guaran-tee

It means the best protection for your buildings

You can test roofing until the cows come home—by every known means—twist it, pull it, tear it, bite it—and when you get through you'll know just as much about how long it will wear as when you started.

Even a roofing expert can't tell by any test how long roofing will last. The only true test is on the roof. When a manufacturer has the faith in his product to stand behind it with a 15-year guarantee, backed by the responsibility of his three big roofing mills—there's the kind of dependable product we are looking for to sell to our customers.

Price per roll, 1-ply, 2-ply, and 3-ply at lowest market price

Lone Star Roofing

The question of a desirable Roofing at a reasonable price presents itself to many of our customers, and in view of these conditions we wish to call to your special attention our Lone Star Roofing.

This Roofing will give the most satisfactory service under any climatic conditions, is weather- and waterproof, elastic, durable and fire-retarding. For temporary structures we recommend the use of 1-ply; for permanent buildings we recommend the use of the 2- and 3-ply. **Per roll, lowest market price.**



GLADIOLUS. No. 1 BULBS. THESE VARIETIES IN MIXTURE. 40 cts. per doz., \$2.75 per 100.

We have selected a choice few of the hundreds of different kinds of Gladiolus to offer here. All are top-notch in their color-range, easy to grow, fine for cutting, and represent the finest modern Gladiolus that can be bought at moderate prices.

PEACE. Pure white. 50 cts. per doz., \$3.75 per 100.
 ANNA EBERIUS. Rosy violet. 60 cts. per doz., \$4 per 100.
 BYRON L. SMITH. Soft lavender. 50 cts. per doz., \$3.75 per 100.
 ALICE TIPLADY. Glowing orange. 50 cts. per doz.,
 \$3.75 per 100.
 MRS. DR. NORTON. Rosy blush. 45 cts. per doz., \$3 per 100.

MR. MACK. Violet. 50 cts. per doz., \$3.75 per 100.
 LE MARECHAL FOCH. Peach-pink. 45 cts. per doz.,
 \$3 per 100.
 CRIMSON GLOW. Velvety red. 50 cts. per doz., \$3.75 per 100.
 GOLDEN MEASURE. Pure yellow. 50 cts. per doz., \$3.75 per 100.



DAHLIAS. These superbly gorgeous autumn flowers are easily grown from roots. Offered on page 14.



TUBEROUS-ROOTED BEGONIAS. Summer bedding and pot-plants of finest character. Flowers surpassingly beautiful. Single and Double, Mixed Colors, 20 cts. each, \$2 per doz.



LAXTON'S PROGRESS PEAS
Delicious, extra-early, and productive.
½lb. 15 cts., lb. 25 cts.,
2 lbs. 45 cts., 7 lbs. \$1.50.



**W. E. BARRETT CO.'S SPECIAL BONNY
BEST TOMATO**
Very early, even scarlet-red, with solid meat of finest quality.
½oz. 25 cts., oz. 40 cts., ¼lb. \$1.25.



CALABRESE BROCCOLI
Delicious flower-heads on many
vigorous shoots. Tender and
good. ½oz. 25 cts., oz. 40
cts., ¼lb. \$1.25.

**GOLD COIN SWEET
CORN**

A new extra-early yellow va-
riety of superb quality. ½lb.
15 cts., lb. 25 cts., 2 lbs. 45 cts.,
6 lbs. \$1.25.

W. E. BARRETT CO.
PROVIDENCE · RHODE ISLAND